

41. For each calendar quarter, the operator may extend the repair period for a total number of leaking components, not to exceed 0.05 % of the number of components inspected, by type, rounded upward to the nearest whole number. The repair period for minor gas leaks can be extended by seven additional days. The repair period for major gas leaks, which are > 10,000 ppmv but < or equal to 50,000 ppmv, can be extended by two additional days. [District Rule 4455] Federally Enforceable Through Title V Permit
42. If a leaking component is an essential component or a critical component and which cannot be shut down immediately for repairs, the operator shall do the following: 1) minimize the leak within one hour after detection of the leak; 2) and if the leak has been minimized, but the leak still exceeds the applicable leak standards of Rule 4455 as specified in this permit, the essential component or critical component shall be repaired or replaced to eliminate the leak during the next process unit turnaround. The repair shall occur no later than one year from the date of the original leak detection. [District Rule 4455] Federally Enforceable Through Title V Permit
43. For any component that has incurred five repair actions for major gas leaks or major liquid leaks, or a combination of major gas leaks and major liquid leaks within a continuous 12-month period, the operator shall do one of the following four options. Options 1a through 1f require written notification to the District, option 2 requires written notification to the District and written District approval, options 3 and 4 do not require written notification to the District: 1a) For compressors replace the existing seal with either a dual mechanical seal, an oil film seal, a gas seal, or a face-type seal; 1b) for pumps replace the pump with a seal-less pump or replace the seal with a dual mechanical seal; 1c) for PRDs replace the PRD and install a rupture disc in the line which precedes the PRD such that the PRD is in series with and follows the rupture disc; 1d) for valves replace the valve with a sealed bellows valve, or for seal rings install graphite or Teflon chevron seal rings in a live-loaded packing gland; 1e) for threaded connections weld the connections or replace threaded connections with flanges; 1f) for sampling connections replace the sampling connection with a closed-loop sampling system; 2) Replace the component with Achieved-in-Practice Best Available Control Technology (BACT) equipment; 3) Vent the component to a District approved closed-vent system; 4) Remove the component from operation. For any component that is accessible, is not unsafe-to-monitor, is not an essential component, or is not a critical component, the operator shall comply with these requirements as soon as practicable but not later than twelve months after the date of detection of the fifth major leak within a continuous 12-month period. For any component that is inaccessible, is unsafe-to-monitor, is essential, or is a critical component, the operator shall comply with these requirements as soon as practicable but not later than the next turnaround or not later than two years after the date of detection of the fifth major leak within a continuous 12-month period, whichever comes first. [District Rule 4455] Federally Enforceable Through Title V Permit
44. All major components and critical components shall be physically identified clearly and visibly for inspection, repair, and recordkeeping purposes. The physical identification shall consist of labels, tags, manufacturer's nameplate identifier, serial number, or model number, or other system approved by the District that enables an operator or the District to locate each individual component. The operator shall replace physical identifications that become missing or unreadable as soon as practicable but not later than 24 hours after discovery. [District Rule 4455] Federally Enforceable Through Title V Permit
45. The operator shall keep a copy of the District approved Operator Management Plan (OMP) at the facility and make it available to the District, ARB, and EPA upon request. [District Rule 4455] Federally Enforceable Through Title V Permit
46. By January 30th of each year the operator shall submit to the District for approval, in writing, an annual report indicating any changes to the existing OMP on file at the District. [District Rule 4455] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

47. The operator shall maintain an inspection log that has been signed and dated by the facility operator responsible for the inspection, certifying the accuracy of the information recorded in the log. The inspection log shall contain, at a minimum, all of the following information: 1) The total number of components inspected, and the total number and percentage of leaking components found by component types; 2) The location, type, name or description of each leaking component and the description of any unit where the leaking component is found; 3) Date of the leak detection and method of the leak detection; 4) For gaseous leaks, record the leak concentration in ppmv, and for liquid leaks record whether the leak is a major liquid leak or a minor liquid leak; 5) The date of repair, replacement, or removal from operation of the leaking component(s); 6) The identification and location of essential components and critical components found leaking that cannot be repaired until the next process unit turnaround or not later than one year after leak detection, whichever comes first; 7) The method(s) used to minimize the leak from essential components and critical components found leaking that cannot be repaired until the next process unit turnaround or not later than one year after leak detection, whichever comes earlier; 8) The date of re-inspection and the leak concentration in ppmv after the component is repaired or is replaced; 9) The inspector's name, business mailing address, and business telephone number. [District Rule 4455] Federally Enforceable Through Title V Permit
48. Records of leaks detected during quarterly or annual operator inspections, and each subsequent repair and re-inspection, shall be submitted to the District, ARB, and EPA upon request. [District Rule 4455] Federally Enforceable Through Title V Permit
49. Records shall be maintained of each calibration of the portable hydrocarbon detection instrument utilized for inspecting components. The records shall include a copy of the current calibration gas certification from the vendor of the calibration gas cylinder, the date of calibration, the concentration of calibration gas, the instrument reading of calibration gas before adjustment, the instrument reading of calibration gas after adjustment, the calibration gas expiration date, and the calibration gas cylinder pressure at the time of calibration. [District Rule 4455] Federally Enforceable Through Title V Permit
50. All records required by this permit shall be retained on-site for a minimum of five years and made available for District, ARB, and EPA inspection upon request. [District Rule 4455] Federally Enforceable Through Title V Permit
51. All measurements of gaseous leak concentrations shall be conducted according to EPA Method 21 using an appropriate portable hydrocarbon detection instrument calibrated with methane. The instrument shall be calibrated in accordance with the procedures specified in EPA Method 21 or the manufacturer's instructions not more than 30 days prior to its use. [District Rule 4455] Federally Enforceable Through Title V Permit
52. The VOC content by weight percent shall be determined using ASTM D-1945 for gases and South Coast Air Quality Management District (SCAQMD) Method 304-91 for liquids. [District Rule 4455] Federally Enforceable Through Title V Permit
53. The percent by volume liquid evaporated at 302 øF (150 øC) shall be determined using ASTM D-86. [District Rule 4455] Federally Enforceable Through Title V Permit
54. The control efficiency of any VOC control device, measured and calculated as carbon, shall be determined by EPA Method 25, except when the outlet concentration must be below 50 ppm in order to meet the standard, in which case EPA Method 25a may be used. EPA Method 18 may be used in lieu of EPA Method 25 or EPA Method 25a provided the identity and approximate concentrations of the analytes/compounds in the sample gas stream are known before analysis with the gas chromatograph and the gas chromatograph is calibrated for each of those known analyte/compound to ensure that the VOC concentrations are neither under- or over-reported. [District Rule 4455] Federally Enforceable Through Title V Permit
55. Halogenated exempt compounds shall be analyzed by EPA Method 18 or ARB Method 422. [District Rule 4455] Federally Enforceable Through Title V Permit

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-71-29-1

EXPIRATION DATE: 08/31/2017

EQUIPMENT DESCRIPTION:

DISTILLATION OPERATION INCLUDING MIXED USE DEISOBUTANIZER/DEBUTANIZER COLUMN, UNFIRED REBOILER, AND VARIOUS EXCHANGERS, PUMPS, AND APPURTENANCES

PERMIT UNIT REQUIREMENTS

1. All VOC sampling connections, open-ended valves, and lines shall be equipped with two closed valves or be sealed with blind flanges, caps, or threaded plugs except during actual use. [District Rule 2201] Federally Enforceable Through Title V Permit
2. Process heat shall only be supplied by hot oil heating systems listed on S-71-4, '5 or '14. [District Rule 2201] Federally Enforceable Through Title V Permit
3. Only heat transfer fluid manufactured and marketed for such use shall be used in a closed loop as heat transfer medium. [District Rule 2201] Federally Enforceable Through Title V Permit
4. Fugitive VOC emission rate shall not exceed 9.4 pounds per day. [District Rule 2201] Federally Enforceable Through Title V Permit
5. Permittee shall maintain permit accurate fugitive component counts and resulting emissions calculated using CAPCOA's "California Implementation Guidelines for Estimating Mass Emissions of Fugitive Hydrocarbon Leaks at Petroleum Facilities," February 1999, Table IV-2c: CAPCOA Oil and Gas Production Screening Value Range Emission Factors. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The operator shall keep a copy of the APCO-approved Operator Management Plan (OMP) at the facility and make it available to the APCO, ARB and US EPA upon request. By January 30 of each year, the operator shall submit to the APCO for approval, in writing, an annual report indicating any changes to the existing, approved OMP. [District Rule 4455] Federally Enforceable Through Title V Permit
7. In accordance with the approved OMP, the operator shall meet all applicable operating, inspection and re-inspection, maintenance, process pressure relief device (PRD), component identification, recordkeeping and notification requirements of Rule 4455 for all components containing or contacting VOC at the this gas liquids processing facility, except for those components specifically exempted in Sections 4.1 and 4.2. [District Rule 4455] Federally Enforceable Through Title V Permit
8. Except for those components specified in the below condition, a component shall be considered leaking if one of more of the conditions specified in Sections 5.1.4.1 through 5.1.4.4 of the rule exist at the facility . [District Rule 4455] Federally Enforceable Through Title V Permit
9. For valves and connectors, a leak shall be defined as a reading of methane in excess of 100 ppmv above background when measured per EPA Method 21 and Maintenance Program pursuant to District Rule 4455. For pump and compressor seals, a leak shall be defined as a reading of methane in excess of 500 ppmv above background when measure per EPA Method 21 and an Inspection and Maintenance Program pursuant to District Rule 4455. [District Rule 2201] Federally Enforceable Through Title V Permit
10. All records required by this permit shall be retained for a period of at least 5 years and shall be made available to the District, ARB, and USEPA upon request. [District Rules 1070, 2201 and 4455] Federally Enforceable Through Title V Permit

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-71-30-1

EXPIRATION DATE: 08/31/2017

EQUIPMENT DESCRIPTION:

21,000 GPM MECHANICAL DRAFT COOLING TOWER WITH HIGH EFFICIENCY CELLULAR TYPE DRIFT ELIMINATOR, FOUR (4) 450 HP CIRCULATION PUMPS, AND TDS CONTROL SYSTEM

PERMIT UNIT REQUIREMENTS

1. No hexavalent chromium containing compounds shall be added to cooling tower circulating water. [District Rule 4102 and 40 CFR 63 Q] Federally Enforceable Through Title V Permit
2. Cooling tower drift shall not exceed 0.001%. [District Rule 2201] Federally Enforceable Through Title V Permit
3. Control system shall maintain total dissolved solids (TDS) in cooling tower water less than 5.0 g/l. [District Rule 2201] Federally Enforceable Through Title V Permit
4. Recirculating water flow rate shall not exceed 21,000 gallons per minute. [District Rule 2201] Federally Enforceable Through Title V Permit
5. Compliance with recirculating water rate limit shall be demonstrated by engineering calculations using manufacturer's pump data, cooling water system pressure, and pump discharge pressure as applicable. [District Rule 2201] Federally Enforceable Through Title V Permit
6. Compliance with the TDS limit will be demonstrated by cooling water sample analysis by independent laboratory within 60 days of initial operation, and by monthly analysis by cooling tower chemical vendor or internal laboratory. [District Rule 1081]
7. Records of cooling tower water TDS and manufacturer's pump data, cooling water system pressure, pump discharge pressure, etc. and resulting engineering calculations of cooling tower water flow rate shall be kept at the facility and made readily available for District inspection upon request for 5 years. [District Rule 2201] Federally Enforceable Through Title V Permit

These terms and conditions are part of the Facility-wide Permit to Operate.

Attachment A

Detailed Facility Printout

SJVUAPCD
SOUTHERN

Detailed Facility Report

8/28/12
4:51 pm

Sorted by Facility Name and Permit Number
For Facility=71

PLAINS LPG SERVICES, L.P. 7TH STANDARD & BEECH SHAFTER, CA 93263	FAC # STATUS: TELEPHONE:	S 71 A 6615895377	TYPE: TOXIC ID:	Titlev 50139	EXPIRE ON: AREA: INSP. DATE:	08/31/2016 5/ 07/13
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PERMIT NUMBER	FEE DESCRIPTION	FEE RULE	QTY	FEE AMOUNT	FEE TOTAL	PERMIT STATUS	EQUIPMENT DESCRIPTION
S-71-1-7	MISCELLANEOUS	3020-06	1	105.00	105.00	A	LPG/NG/L DISTILLATION OPERATION INCLUDING ONE DE-PROPANIZER/DE-BUTANIZER, ONE DE-PROPANIZER/STRIPPER, UNFIRED DE-ISOBUTANIZER REBOILER/LPG VAPORIZER, ONE DE-ISOBUTANIZER, AND ONE DE-BUTANIZER
S-71-2-9	MISCELLANEOUS	3020-06	1	105.00	105.00	A	NATURAL GASOLINE AND LPG LOADING AND UNLOADING OPERATION WITH VAPOR CONTROL, TWO NATURAL GASOLINE AND LPG LOADING/UNLOADING RACKS, TWO LPG LOADING/UNLOADING RACKS, THREE 20,850 GALLON PRESSURIZED STORAGE TANKS, TWO 25 BHP COMPRESSORS, PIPING TO PRESSURIZED (PERMIT EXEMPT) LPG TANKS, AND NITROGEN PURGE SYSTEM FOR LIQUID LINES, COMPRESSOR SEALS, AND COMPRESSOR CRANKCASES
S-71-3-10	MISCELLANEOUS	3020-06	1	105.00	105.00	A	LPG TRUCK LOADING/UNLOADING RACKS #4 & #5 INCLUDING TWO 25 BHP COMPRESSORS, FOUR 2" LIQUID UNLOADING HOSES, FOUR 1" VAPOR RECOVERY HOSES, PIPING TO PERMIT EXEMPT LPG TANKAGE, AND NITROGEN PURGE SYSTEM SERVING LIQUID LINES AND COMPRESSOR SEALS AND CRANKCASES
S-71-4-13	80 MMBTU/HR	3020-02 H	1	1,030.00	1,030.00	A	BUTANER-BUTANE ISOMERIZATION UNIT INCLUDING TWO BUTANE FEED DRYERS V-102A/B, HYDROGEN MAKE-UP DRYER V-106, TWO REGENERANT DRYERS V-107A/B, ONE 80 MMBTU/HR GAS-FIRED PROCESS OIL HEATER H-201 WITH SIX MODEL CUBR-10W LOW-NOX BURNERS AND FUEL PIPING SHARED WITH PERMIT #S-71-1
S-71-5-8	10,280 KBTU/HR	3020-02 G	1	815.00	815.00	A	10.28 MMBTU/HR HYDROGEN PLANT INCLUDING ONE STEAM METHANE REFORMER FURNACE #H-301 EQUIPPED WITH CALLIDUS, MODEL LE-CSG-8M-PSA, LOW-NOX BURNER, AND TWO HYDRODESULFURIZER REACTORS (R-301 A/B)
S-71-6-5	MISCELLANEOUS	3020-06	1	105.00	105.00	A	LPG TRUCK LOADING/UNLOADING RACKS #6 & #7 INCLUDING TEN LOADING/CHARGE PUMPS NOT TO EXCEED 30 BHP EACH, SIX LIQUID UNLOADING HOSES, SIX VAPOR RECOVERY HOSES, NITROGEN PURGE SYSTEM FOR LIQUID LINES, AND PIPING TO/FROM PERMIT EXEMPT LPG TANKAGE
S-71-7-2	320 BHP IC ENGINE	3020-10 C	1	240.00	240.00	A	320 BHP DIESEL-FIRED EMERGENCY IC ENGINE POWERING A FIREWATER PUMP
S-71-8-2	55 BHP IC ENGINE	3020-10 A	1	80.00	80.00	A	55 BHP NATURAL GAS-FIRED EMERGENCY STANDBY IC ENGINE POWERING A DRINKING WATER SYSTEM
S-71-9-0	55 BHP	3020-10 A	1	80.00	80.00	D	55 BHP NATURAL GAS FIRED I. C. ENGINE FOR EMERGENCY COOLING WATER PUMP - DELETED PER CHANGE ORDER, 8/3/98, MRL
S-71-10-3	208 BHP IC ENGINE	3020-10 C	1	240.00	240.00	A	208 BHP DIESEL-FIRED EMERGENCY IC ENGINE POWERING A FIREWATER PUMP

Detailed Facility Report

For Facility=71

Sorted by Facility Name and Permit Number

PERMIT NUMBER	FEE DESCRIPTION	FEE RULE	QTY	AMOUNT	FEE TOTAL	PERMIT STATUS	EQUIPMENT DESCRIPTION
S-71-12-6	MISCELLANEOUS	3020-06	1	105.00	105.00	A	RALLCAR LPG/NATURAL GASOLINE LOADING/UNLOADING OPERATION WITH FIFTEEN LPG/NATURAL GASOLINE LOADING/UNLOADING STATIONS INCLUDING: ELEVATED RACK SYSTEM UTILIZING HARD PIPING AND SWIVEL JOINTS; AND NITROGEN PURGE SYSTEM SERVING LIQUID LINES, COMPRESSOR SEALS, AND COMPRESSOR CRANKCASES
S-71-14-10	105 MMBTU/HR	3020-02 H	1	1,030.00	1,030.00	A	BUTAMER-BUTANE ISOMERIZATION UNIT #2 WITH 105 MMBTU/HR GAS-FIRED HOT OIL HEATER H-202 EQUIPPED WITH CALLIDUS MODEL CUBR-12W LOW-NOX BURNERS AND INTERNAL FGR WITH NITROGEN PURGE SYSTEM SERVING COMPRESSOR SEALS AND COMPRESSOR CRANKCASES
S-71-15-8	23 MMBTU/HR	3020-02 H	1	1,030.00	1,030.00	A	SAFEQAT FEEDSTOCK TREATMENT UNIT WITH 23 MMBTU/HR GAS-FIRED HEATER H-401 EQUIPPED WITH CALLIDUS MODEL CUBR-8P LOW-NOX BURNERS AND INTERNAL FGR
S-71-17-1	267 BHP IC ENGINE	3020-10 C	1	240.00	240.00	A	267 BHP CATERPILLAR MODEL 3306 DIESEL-FIRED EMERGENCY IC ENGINE POWERING A FIREWATER PUMP
S-71-18-0	14,544 GALLONS	3020-05 B	1	93.00	93.00	A	14,544 GALLON HORIZONTAL CYLINDRICAL NATURAL GASOLINE/LPG STORAGE TANK #1
S-71-19-0	14,544 GALLONS	3020-05 B	1	93.00	93.00	A	14,544 GALLON HORIZONTAL CYLINDRICAL NATURAL GASOLINE/LPG STORAGE TANK #2
S-71-20-0	16,505 GALLONS	3020-05 B	1	93.00	93.00	A	16,505 GALLON HORIZONTAL CYLINDRICAL NATURAL GASOLINE/LPG STORAGE TANK #3
S-71-21-0	15,000 GALLONS	3020-05 B	1	93.00	93.00	A	15,000 GALLON HORIZONTAL CYLINDRICAL NATURAL GASOLINE/LPG STORAGE TANK #4
S-71-22-0	15,249 GALLONS	3020-05 B	1	93.00	93.00	A	15,249 GALLON HORIZONTAL CYLINDRICAL NATURAL GASOLINE/LPG STORAGE TANK #5
S-71-23-0	15,187 GALLONS	3020-05 B	1	93.00	93.00	A	15,187 GALLON HORIZONTAL CYLINDRICAL NATURAL GASOLINE/LPG STORAGE TANK #6
S-71-24-0	98,913 GALLONS	3020-05 D	1	185.00	185.00	A	98,913 GALLON HORIZONTAL CYLINDRICAL NATURAL GASOLINE/LPG STORAGE TANK #64
S-71-25-0	98,913 GALLONS	3020-05 D	1	185.00	185.00	A	98,913 GALLON HORIZONTAL CYLINDRICAL NATURAL GASOLINE/LPG STORAGE TANK #65
S-71-26-0	98,913 GALLONS	3020-05 D	1	185.00	185.00	A	98,913 GALLON HORIZONTAL CYLINDRICAL NATURAL GASOLINE/LPG STORAGE TANK #66
S-71-27-0	108,047 GALLONS	3020-05 E	1	246.00	246.00	A	108,047 GALLON NATURAL GASOLINE/LPG STORAGE TANK
S-71-28-0	108,047 GALLONS	3020-05 E	1	246.00	246.00	A	108,047 GALLON NATURAL GASOLINE/LPG STORAGE TANK
S-71-29-0	40 BHP	3020-01 B	1	117.00	117.00	A	DISTILLATION OPERATION INCLUDING MIXED USE DEISOBUTANIZER/DEBUTANIZER COLUMN, UNFIRED REBOILER, AND VARIOUS EXCHANGERS, PUMPS, AND APPURTENANCES

SJVUAPCD
SOUTHERN

Detailed Facility Report

8/28/12
4:51 pm

For Facility=71
Sorted by Facility Name and Permit Number

PERMIT NUMBER	FEE DESCRIPTION	FEE RULE	QTY	FEE AMOUNT	FEE TOTAL	PERMIT STATUS	EQUIPMENT DESCRIPTION
S-71-30-0	1,800 BHP	3020-01 H	1	1,030.00	1,030.00	A	21,000 GPM MECHANICAL DRAFT COOLING TOWER WITH HIGH EFFICIENCY CELLULAR TYPE DRIFT ELIMINATOR, FOUR 450 BHP CIRCULATION PUMPS, AND TDS CONTROL SYSTEM

Number of Facilities Reported: 1

Attachment B

SJVUAPCD Previous Permits



San Joaquin Valley
AIR POLLUTION CONTROL DISTRICT



Permit to Operate

FACILITY: S-71 **EXPIRATION DATE:** 08/31/2016
LEGAL OWNER OR OPERATOR: PLAINS LPG SERVICES, L.P.
MAILING ADDRESS: 19430 BEECH AVE
SHAFTER, CA 93263
FACILITY LOCATION: 7TH STANDARD & BEECH
SHAFTER, CA 93263
FACILITY DESCRIPTION: NATURAL GAS PRODUCTION

The Facility's Permit to Operate may include Facility-wide Requirements as well as requirements that apply to specific permit units.

This Permit to Operate remains valid through the permit expiration date listed above, subject to payment of annual permit fees and compliance with permit conditions and all applicable local, state, and federal regulations. This permit is valid only at the location specified above, and becomes void upon any transfer of ownership or location. Any modification of the equipment or operation, as defined in District Rule 2201, will require prior District approval. This permit shall be posted as prescribed in District Rule 2010.

Seyed Sadredin
Executive Director / APCO

David Warner
Director of Permit Services

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-71-1-7

EXPIRATION DATE: 08/31/2016

SECTION: 35 TOWNSHIP: 28S RANGE: 25E

EQUIPMENT DESCRIPTION:

LPG/NGL DISTILLATION OPERATION INCLUDING ONE DE-PROPANIZER/DE-BUTANIZER, ONE DE-PROPANIZER/STRIPPER, UNFIRED DE-ISOBUTANIZER REBOILER/LPG VAPORIZER, ONE DE-ISOBUTANIZER, AND ONE DE-BUTANIZER

PERMIT UNIT REQUIREMENTS

1. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
2. The permittee shall not emit more than one half of the major source threshold based on a rolling 12-month summary of actual emissions. [District Rule 2530, 6.1]
3. The permittee shall maintain a record of the rolling 12-month summary of actual emissions from permitted operations. This record shall be kept on site and made available to the District upon request. [District Rule 2530, 6.1]
4. Process heat shall be supplied by hot oil system (Permit #'s S-71-4 and '-14) or hydrogen plant steam methane/LPG reformer furnace (Permit #S-71-5). [District Rule 2201]
5. Heat exchangers using cooling water shall be maintained leak-free as defined in Rule 4451 and Rule 4452. [District Rules 4451 & 4452]
6. Steam for steam driven pumps shall be supplied from steam methane/LPG reformer furnace waste heat boiler (Permit No. S-71-5) only. [District Rule 2201]
7. Permittee shall comply with all applicable inspection, maintenance, testing, and recordkeeping requirements of Rules 4451 and 4452. [District Rules 4451 & 4452]
8. Fugitive VOC emissions from permit unit shall not exceed 59.0 lb per day. [District Rule 2201]
9. Permittee shall maintain permit accurate fugitive component counts and resulting emissions calculated using CAPCOA's "California Implementation Guidelines for Estimating Mass Emissions of Fugitive Hydrocarbon Leaks at Petroleum Facilities," Table IV-2c (Feb 1999), Screening Value Range emission factors. [District Rule 2201]
10. Gas compressor seals and pump seals shall have no vapor leaks in excess of 10,000 ppmv above background when measured with a portable hydrocarbon detection instrument calibrated with methane in accordance with EPA Method 21. Gas compressor seals and pump seals shall have no leak of VOC in excess of 3 drops per minute. [District Rule 2201]
11. Except for 1.3% of the valves, 0.5% of the connectors, and 0.5% of the flanges, fugitive piping components as defined in CAPCOA's "California Implementation Guidelines for Estimating Mass Emissions of Fugitive Hydrocarbon Leaks at Petroleum Facilities" shall have no vapor leaks in excess of 10,000 ppmv above background when measured with a portable hydrocarbon detection instrument calibrated with methane in accordance with EPA Method 21. Fugitive components shall have no leaks of VOC in excess of 3 drops per minute. [District Rule 2201]
12. Condition 10 applies to the following equipment : V-1 fractionating tower, V-1 feed piping, V-1 bottoms piping, V-1 overhead piping, P-5A/B, P12A/B, five heat exchangers, V-20, V-4 fractionating tower, V-4 feed piping, V-4 piping to storage, six heat exchangers, pumps P-4A/B, inlet piping to E-9 LPG fuel gas vaporizer and outlet piping from E-9 LPG fuel gas vaporizer to off-gas system. [District Rule 2201]

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

13. Any valve, flange, or connector with a vapor leak greater than 100 ppmv above background or any compressor seal or pump seal with a vapor leak greater than 500 ppmv above background (when measured with a portable hydrocarbon detection instrument calibrated with methane in accordance with EPA Method 21) shall be repaired in a manner consistent with the procedures specified in Rule 4451 or Rule 4452. [District Rules 2201, 4451, and 4452]

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-71-2-9

EXPIRATION DATE: 08/31/2016

SECTION: SW35 **TOWNSHIP:** 28S **RANGE:** 25E

EQUIPMENT DESCRIPTION:

NATURAL GASOLINE AND LPG LOADING AND UNLOADING OPERATION WITH VAPOR CONTROL, TWO NATURAL GASOLINE AND LPG LOADING/UNLOADING RACKS, TWO LPG LOADING/UNLOADING RACKS, THREE 20,850 GALLON PRESSURIZED STORAGE TANKS, TWO 25 BHP COMPRESSORS, PIPING TO PRESSURIZED (PERMIT EXEMPT) LPG TANKS, AND NITROGEN PURGE SYSTEM FOR LIQUID LINES, COMPRESSOR SEALS, AND COMPRESSOR CRANKCASES

PERMIT UNIT REQUIREMENTS

1. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
2. The permittee shall not emit more than one half of the major source threshold based on a rolling 12-month summary of actual emissions. [District Rule 2530, 6.1]
3. The permittee shall maintain a record of the rolling 12-month summary of actual emissions from permitted operations. This record shall be kept on site and made available to the District upon request. [District Rule 2530, 6.1]
4. The loading racks shall be equipped with a vapor loss prevention system consisting of vapor and condensate collection systems capable of reducing VOC emissions by at least 95%. [District Rule 4624]
5. Permittee shall comply with all applicable inspection, maintenance, testing, and recordkeeping requirements of Rules 4624 for organic liquid loading operations. [District Rules 4624]
6. Nitrogen purge system shall be a closed loop system and shall not vent to the atmosphere during operation of the system. [District Rule 2201]
7. After completion of truck loading/unloading, liquid lines shall be purged with nitrogen prior to disconnection. [District Rule 4624]
8. The nitrogen purge system serving the compressor seals and compressor crankcases shall vent through two activated charcoal canisters connected in series, except during scheduled maintenance or repair activities. During repair and maintenance (such as charcoal bed change out) VOC emissions shall be minimized to the fullest extent possible. [District Rule 2201]
9. The nitrogen purge system's used activated charcoal canisters shall be handled and disposed of in sealed containers, preventing VOC emissions to the fullest extent possible. [District Rule 2201]
10. The nitrogen purge system's activated charcoal canisters shall be replaced to maintain the VOC concentration from the canister vent less than 4,500 ppmv-VOC or periodically as recommended by the manufacturer, whichever occurs first. [District Rule 2201]
11. Fugitive VOC emission rate shall not exceed 32.2 pounds per day. [District Rule 2201]
12. Maximum VOC emissions from truck loading/unloading liquid hose connects/disconnects shall not exceed 3.5 lb/day. [District Rule 2201]
13. Maximum VOC emissions from truck loading/unloading vapor hose connects/disconnects shall not exceed 0.3 lb/day. [District Rule 2201]

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE
These terms and conditions are part of the Facility-wide Permit to Operate.

14. Permittee shall maintain permit accurate fugitive component counts and resulting emissions calculated using CAPCOA's "California Implementation Guidelines for Estimating Mass Emissions of Fugitive Hydrocarbon Leaks at Petroleum Facilities," February 1999, Table IV-2c: CAPCOA Oil and Gas Production Screening Value Range Emission Factors. [District Rule 2201]
15. There shall be no more than 192 liquid hose connects/disconnects in any one day. [District Rule 2201]
16. There shall be no more than 192 vapor hose connects/disconnects in any one day. [District Rule 2201]
17. The operator shall keep a copy of the APCO-approved Operator Management Plan (OMP) at the facility and make it available to the APCO, ARB and US EPA upon request. By January 30 of each year, the operator shall submit to the APCO for approval, in writing, an annual report indicating any changes to the existing, approved OMP. [District Rule 4455]
18. In accordance with the approved OMP, the operator shall meet all applicable operating, inspection and re-inspection, maintenance, process pressure relief device (PRD), component identification, recordkeeping and notification requirements of Rule 4455 for all components containing or contacting VOC at the this gas liquids processing facility, except for those components specifically exempted in Sections 4.1 and 4.2. [District Rule 4455]
19. Except for those components specified in condition 18, a component shall be considered leaking if one of more of the conditions specified in Sections 5.1.4.1 through 5.1.4.4 of the rule exist at the facility . [District Rule 4455, 5.1.4]
20. For valves and connectors, a leak shall be defined as a reading of methane in excess of 100 ppmv above background when measured per EPA Method 21 and Maintenance Program pursuant to District Rule 4455. For pump and compressor seals, a leak shall be defined as a reading of methane in excess of 500 ppmv above background when measure per EPA Method 21 and an Inspection and Maintenance Program pursuant to District Rule 4455. [District Rule 2201]
21. Permittee shall maintain accurate daily records of the number of truck loading/unloading vapor hose connects/disconnects and truck loading/unloading liquid hose connects/disconnects. [District Rule 1070]
22. All records required by this permit shall be retained for a period of at least 5 years and shall be made available to the District, ARB, and USEPA upon request. [District Rules 1070 and 4455]

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-71-3-10

EXPIRATION DATE: 08/31/2016

SECTION: 35 **TOWNSHIP:** 28S **RANGE:** 25E

EQUIPMENT DESCRIPTION:

LPG TRUCK LOADING/UNLOADING RACKS #4 & #5 INCLUDING TWO 25 BHP COMPRESSORS, FOUR 2" LIQUID UNLOADING HOSES, FOUR 1" VAPOR RECOVERY HOSES, PIPING TO PERMIT EXEMPT LPG TANKAGE, AND NITROGEN PURGE SYSTEM SERVING LIQUID LINES AND COMPRESSOR SEALS AND CRANKCASES

PERMIT UNIT REQUIREMENTS

1. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
2. The permittee shall not emit more than one half of the major source threshold based on a rolling 12-month summary of actual emissions. [District Rule 2530, 6.1]
3. The permittee shall maintain a record of the rolling 12-month summary of actual emissions from permitted operations. This record shall be kept on site and made available to the District upon request. [District Rule 2530, 6.1]
4. After completion of truck unloading, liquid lines shall be purged with nitrogen prior to disconnection. [District Rule 4624]
5. The permittee shall comply with all inspection, maintenance, testing, and recordkeeping requirements of Rule 4624 for the organic liquid loading operation. [District Rule 4624]
6. The nitrogen purge system serving the liquid lines shall be a closed loop system and shall not vent to the atmosphere during operation of the system. [District Rule 2201]
7. The nitrogen purge system serving the compressor seals and compressor crankcases shall vent through two activated charcoal canisters connected in series, except during scheduled maintenance or repair activities. During repair and maintenance (such as charcoal bed change out) VOC emissions shall be minimized to the fullest extent possible. [District Rule 2201]
8. The nitrogen purge system's used activated charcoal canisters shall be handled and disposed of in sealed containers, preventing VOC emissions to the fullest extent possible. [District Rule 2201]
9. The nitrogen purge system's activated charcoal canisters shall be replaced to maintain the VOC concentration from the canister vent less than 4,500 ppmv-VOC or periodically as recommended by the manufacturer, whichever occurs first. [District Rule 2201]
10. Fugitive VOC emission rate shall not exceed 17.6 lb per day. [District Rule 2201]
11. Permittee shall maintain permit accurate fugitive component counts and resulting emissions calculated using CAPCOA's "California Implementation Guidelines for Estimating Mass Emissions of Fugitive Hydrocarbon Leaks at Petroleum Facilities," Table IV-2c (Feb 1999), Screening Value Range emission factors. [District Rule 2201]
12. The operator shall keep a copy of the APCO-approved Operator Management Plan (OMP) at the facility and make it available to the APCO, ARB and US EPA upon request. By January 30 of each year, the operator shall submit to the APCO for approval, in writing, an annual report indicating any changes to the existing, approved OMP. [District Rule 4455]

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE
These terms and conditions are part of the Facility-wide Permit to Operate.

13. In accordance with the approved OMP, the operator shall meet all applicable operating, inspection and re-inspection, maintenance, process pressure relief device (PRD), component identification, recordkeeping and notification requirements of Rule 4455 for all components containing or contacting VOC at the this gas liquids processing facility, except for those components specifically exempted in Sections 4.1 and 4.2. [District Rule 4455]
14. Condition 13 applies to the following equipment: V-1/V-4 bottoms rundown to east tank farm unloading operation and V-1 bottoms rundown to east tank farm storage and center row unloading operation. [District Rule 2201]
15. Any valve, flange, or connector with a vapor leak greater than 100 ppmv above background or any compressor seal or pump seal with a vapor leak greater than 500 ppmv above background (when measured with a portable hydrocarbon detection instrument calibrated with methane in accordance with EPA Method 21) shall be repaired in a manner consistent with the procedures specified in Rule 4455. [District Rules 2201 and 4455]
16. The loading and vapor collection equipment shall be maintained and operated such that there are no leaks or no excess organic liquid drainage (as defined in Rule 4624) at disconnections. [District Rule 4624]
17. All records required by this permit shall be retained for a period of at least 5 years and shall be made available to the District, ARB, and USEPA upon request. [District Rules 1070 and 4455]

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-71-4-13

EXPIRATION DATE: 08/31/2016

SECTION: 35 TOWNSHIP: 28S RANGE: 25E

EQUIPMENT DESCRIPTION:

BUTAMER-BUTANE ISOMERIZATION UNIT INCLUDING TWO BUTANE FEED DRYERS V-102A/B, HYDROGEN MAKE-UP DRYER V-106, TWO REGENERANT DRYERS V-107A/B, ONE 80 MMBTU/HR GAS-FIRED PROCESS OIL HEATER H-201 WITH SIX MODEL CUBR-10W LOW-NOX BURNERS AND FUEL PIPING SHARED WITH PERMIT #S-71-1

PERMIT UNIT REQUIREMENTS

1. The permittee shall not emit more than one half of the major source threshold based on a rolling 12-month summary of actual emissions. [District Rule 2530, 6.1]
2. The permittee shall maintain a record of the rolling 12-month summary of actual emissions from permitted operations. This record shall be kept on site and made available to the District upon request. [District Rule 2530, 6.1]
3. A non-resettable, totalizing mass or volumetric fuel flow meter to measure the amount of fuel gas combusted in the unit shall be installed, utilized and maintained. [District Rule 2201]
4. Operation shall include feed surge drum V-103, one product separator V-104, two reactors R-101A/B, stabilizer receiver V-109, and one perchloroethylene storage/injection vessel V-105. [District Rules 2201 & 4102]
5. Operation shall include one spent caustic de-gas drum V-112, one stabilizer column V-108, and one net gas scrubber V-110. [District Rule 2201]
6. Operation shall include one de-isobutanizer tower T-201, one de-isobutanizer overhead accumulator V-201, one 125 HP recycle gas compressor C-101, and one hydrogen make-up knock-out drum V-115. [District Rule 2201]
7. Operation shall include hot oil circulation piping, exchangers, and miscellaneous vessels. [District Rule 2201]
8. Hot oil drum shall be equipped with a pressure relief valve set at a minimum 100 psig and no greater than maximum pressure rating recommended by ASME or other recognized authority. [District Rule 2201]
9. All VOC sampling connections, open-ended valves, and lines shall be equipped with two closed valves or be sealed with blind flanges, caps, or threaded plugs except during actual use. [District Rule 2201]
10. Perchloroethylene storage vessel shall be blanketed with inert gas. [District Rule 4102]
11. Perchloroethylene storage vessel shall be equipped with a pressure relief valve set at a minimum pressure of 50 psig. [District Rule 4102]
12. Hot oil drum shall be fuel gas blanketed with vent to fuel gas system. [District Rule 2201]
13. Fuel gas combusted in fired equipment may be comprised of process off-gas (including hydrogen), propane, butane, natural gas, or any combination thereof. [District Rule 2201]
14. The heating value of the fuel gas (Btu/scf @ hhv) combusted in fired equipment shall be determined by sample analysis at least annually. Results of sample analysis shall be retained on site and made available for District inspection upon request. [District Rule 2201]
15. Total heat input of fuel gas combusted in units S-71-4, '5, '14 and '15 shall not exceed 1,602,019 MM Btu/yr. [District Rule 2201]

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

16. Perchloroethylene receiving line shall be blown dry to storage vessel using an inert gas upon completion of transfer. [District Rule 4102]
17. Only heat transfer fluid manufactured and marketed for such use shall be used in a closed loop as heat transfer medium. [District Rule 2201]
18. All excess gas shall be incinerated in process heater firebox or existing boiler. [District Rule 2201]
19. Fugitive VOC emission rate shall not exceed 46.5 pounds per day. [District Rule 2201]
20. Permittee shall maintain permit accurate fugitive component counts and resulting emissions calculated using CAPCOA's "California Implementation Guidelines for Estimating Mass Emissions of Fugitive Hydrocarbon Leaks at Petroleum Facilities," February 1999, Table IV-2c: CAPCOA Oil and Gas Production Screening Value Range Emission Factors. [District Rule 2201]
21. Emission rates shall not exceed any of the following: PM10: 0.005 lb/MMBtu; NOx (as NO2): 25 ppmv @ 3% O2; VOC: 0.00275 lb/MMBtu; SOx (as SO2): 0.0005 lb/MMBtu; or CO: 50 ppmv @ 3% O2. [District Rule 2201]
22. Hot oil heater stack shall be equipped with sampling facilities for source testing in accordance with the provisions of Rule 1081 (Source Sampling). [District Rule 2201]
23. The operator shall keep a copy of the APCO-approved Operator Management Plan (OMP) at the facility and make it available to the APCO, ARB and US EPA upon request. By January 30 of each year, the operator shall submit to the APCO for approval, in writing, an annual report indicating any changes to the existing, approved OMP. [District Rule 4455]
24. In accordance with the approved OMP, the operator shall meet all applicable operating, inspection and re-inspection, maintenance, process pressure relief device (PRD), component identification, recordkeeping and notification requirements of Rule 4455 for all components containing or contacting VOC at the this gas liquids processing facility, except for those components specifically exempted in Sections 4.1 and 4.2. [District Rule 4455]
25. Except for those components specified in condition 24, a component shall be considered leaking if one of more of the conditions specified in Sections 5.1.4.1 through 5.1.4.4 of the rule exist at the facility. [District Rule 4455, 5.1.4]
26. For valves and connectors, a leak shall be defined as a reading of methane in excess of 100 ppmv above background when measured per EPA Method 21. For pump and compressor seals, a leak shall be defined as a reading of methane in excess of 500 ppmv above background when measure per EPA Method 21. [District Rule 2201]
27. The emission control systems shall be in operation and emissions shall be minimized insofar as technologically feasible during startup and shutdown. [District Rules 4305 & 4306]
28. The duration of each startup and shutdown period for the 80 MMBtu/hr gas-fired process oil heater shall not exceed 5.5 hours and 2.0 hours respectively. Emission limits of Rules 4305 and 4306 are waived during periods of startup and shutdown. [District Rules 4305 & 4306]
29. The permittee shall maintain records of the duration of each startup period for the 80 MMBtu/hr gas-fired process oil heater. [District Rules 4305 & 4306]
30. The permittee shall monitor and record the stack concentration of NOx (as NO2), CO, and O2 at least once every month using a portable emission monitor. Monitoring shall not be required if the unit is not in operation, i.e. the unit need not be started solely to perform monitoring. Monitoring shall be performed within 5 days of restarting the unit unless monitoring has been performed within the last month. [District Rules 4305 and 4306]

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

31. If the NO_x and/or CO concentrations corrected to 3% O₂, as measured by the portable analyzer, exceed the allowable emissions concentration, the permittee shall return the emissions to within the acceptable range as soon as possible, but no longer than 1 hour of operation after detection. If the portable analyzer readings continue to exceed the allowable emissions concentration after 1 hour of operation after detection, the permittee shall notify the District within the following 1 hour and conduct a certified source test within 60 days of the first exceedance. In lieu of conducting a source test, the permittee may stipulate a violation has occurred, subject to enforcement action. The permittee must then correct the violation, show compliance has been re-established, and resume monitoring procedures. If the deviations are the result of a qualifying breakdown condition pursuant to Rule 1100, the permittee may fully comply with Rule 1100 in lieu of performing the notification and testing required by this condition. [District Rule 4305 and 4306]
32. The permittee shall maintain records of: (1) the date and time of NO_x, CO, and O₂ measurements, (2) the O₂ concentration in percent and the measured NO_x and CO concentrations corrected to 3% O₂, (3) make and model of exhaust gas analyzer, (4) exhaust gas analyzer calibration records, and (5) a description of any corrective action taken to maintain the emissions within the acceptable range. [District Rules 4305 and 4306]
33. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081]
34. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081]
35. This unit shall be tested for compliance with the NO_x, CO, and SO_x emissions limits at least once every 12 months. After demonstrating compliance on two consecutive annual source tests, the unit shall be tested not less than once every thirty-six months. [District Rules 2201, 4305 and 4306]
36. NO_x emissions for source test purposes shall be determined using EPA Method 7E or ARB Method 100 on a ppmv basis, or EPA Method 19 on a heat input basis. NO_x emissions during the source test shall be calculated as the arithmetic average of three 30-consecutive-minute test runs. [District Rules 4305 and 4306]
37. CO emissions for source test purposes shall be determined using EPA Method 10 or ARB Method 100. CO emissions during the source test shall be calculated as the arithmetic average of three 30-consecutive-minute test runs. [District Rules 4305 and 4306]
38. SO_x emissions for source test purposes shall be determined using EPA Method 19. [District Rule 1081]
39. Stack gas oxygen for source test purposes shall be determined using EPA Method 3 or 3A or ARB Method 100. [District Rules 4305 and 4306]
40. If permittee fails any compliance demonstration for NO_x, CO, or SO_x emission limits when testing not less than once every 36 months, compliance with NO_x, CO, and SO_x emission limits shall be demonstrated not less than once every 12 months. [District Rules 2201, 4305 and 4306]
41. Permittee shall maintain accurate records of perchloroethylene usage, fuel gas heating value, and daily, monthly and annual records of fuel gas use. [District Rules 1070 and 2201]
42. Permittee shall maintain accurate monthly records of the combined heat input of the fuel gas combusted in units S-71-4, '5, '14 and '15. [Districts Rule 1070 and 2201]
43. When the LPG supply source for make up fuel to the fuel gas system changes, the stack concentrations of NO_x, CO, and O₂ shall be measured with a District approved portable analyzer to verify emissions compliance. This is to be done anytime that LPG is being vaporized to supply make up fuel to the fuel gas system. [District Rule 2201, 4301, 4305 and 4306]
44. All records required by this permit shall be retained for a period of at least 5 years and shall be made available to the District, ARB, and USEPA upon request. [District Rules 1070 and 4455]

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-71-5-8

EXPIRATION DATE: 08/31/2016

SECTION: 35 **TOWNSHIP:** 28S **RANGE:** 25E

EQUIPMENT DESCRIPTION:

10.28 MMBTU/HR HYDROGEN PLANT INCLUDING ONE STEAM METHANE REFORMER FURNACE #H-301 EQUIPPED WITH CALLIDUS, MODEL LE-CSG-8W-PSA, LOW-NOX BURNER, AND TWO HYDRODESULFURIZER REACTORS (R-301 A/B)

PERMIT UNIT REQUIREMENTS

1. The permittee shall not emit more than one half of the major source threshold based on a rolling 12-month summary of actual emissions. [District Rule 2530, 6.1]
2. The permittee shall maintain a record of the rolling 12-month summary of actual emissions from permitted operations. This record shall be kept on site and made available to the District upon request. [District Rule 2530, 6.1]
3. A non-resettable, totalizing mass or volumetric fuel flow meter to measure the amount of fuel gas combusted in the unit shall be installed, utilized and maintained. [District Rule 2201]
4. Operation shall include one steam drum V-301, two 5 HP boiler feed pumps, two 3 HP hydrocarbon feed pumps, one high temp. shift conversion reactor R-302, one deaerator vessel V-303, and one condensate separator V-304. [District Rule 2201]
5. Operation shall include four pressure swing absorption purification vessels V-305A/B/C/D, two 40 HP and one 100 HP hydrogen product compressors, one PSA off gas fuel surge drum V-306, and reformer piping to steam distribution. [District Rule 2201]
6. Gas-fired emission rates shall not exceed any of the following: PM10: 0.0137 lb/MMBtu; SOx (as SO2): 0.0006 lb MMBtu; or VOC: 0.00278 lb/MMBtu. [District Rule 2201]
7. Emissions shall not exceed any of the following: 0.036 lb NOx/MMBtu (or 30 ppmv @ 3% O2), 400 ppmv CO @ 3% O2. [District Rules 4305 and 4306]
8. Steam methane reformer stack shall be equipped with sampling facilities for source testing in accordance with the provisions of Rule 1081 (Source Sampling). [District Rule 1081]
9. Waste gas shall only be ducted to and incinerated in methane reformer fire box only. [District Rule 2201]
10. All VOC sampling connections, open-ended valves, and lines shall be equipped with two closed valves or be sealed with blind flanges, caps or threaded plugs except during actual use. [District Rule 2201]
11. Process heat shall be supplied by steam methane reformer furnace only. [District Rule 2201]
12. Process heat from the steam methane reformer furnace may be used in the LPG/NGL distillation operation (Permit #S-71-1). [District Rule 2201]
13. Steam methane reformer furnace shall be gas-fired only. [District Rule 2201]
14. The emission control systems shall be in operation and emissions shall be minimized insofar as technologically feasible during startup and shutdown. [District Rules 4305 & 4306]

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE
These terms and conditions are part of the Facility-wide Permit to Operate.

15. Fuel gas combusted in fired equipment may be comprised of process off-gas (including hydrogen), propane, butane, natural gas, or any combination thereof. [District Rule 2201]
16. The heating value of the fuel gas (Btu/scf @ the hhv) combusted in fired equipment shall be determined by sample analysis at least annually. Results of sample analysis shall be retained on site and made available for District inspection upon request. [District Rule 2201]
17. Total heat input of fuel gas combusted in units S-71-4, '5, '14 and '15 shall not exceed 1,602,019 MM Btu/yr. [District Rule 2201]
18. Permittee shall maintain accurate records of the fuel gas heating value and daily, monthly and annual records of fuel gas use. [District Rules 1070 and 2201]
19. Permittee shall maintain accurate monthly records of the combined heat input of the fuel gas combusted in units S-71-4, '5, '14 and '15. [District Rules 1070 and 2201]
20. The duration of each startup and shutdown period for the 10.28 MMBtu/hr hydrogen plant shall not exceed 12.0 hours and 2.0 hours respectively. Emission limits of Rules 4305 and 4306 are waived during periods of startup and shutdown. [District Rules 4305 & 4306]
21. The permittee shall maintain records of the duration of each startup period for the 10.28 MMBtu/hr hydrogen plant. [District Rules 4305 & 4306]
22. The permittee shall monitor and record the stack concentration of NO_x (as NO₂), CO, and O₂ at least once every month using a portable emission monitor. Monitoring shall not be required if the unit is not in operation, i.e. the unit need not be started solely to perform monitoring. Monitoring shall be performed within 5 days of restarting the unit unless monitoring has been performed within the last month. [District Rules 4305 and 4306]
23. If the NO_x and/or CO concentrations corrected to 3% O₂, as measured by the portable analyzer, exceed the allowable emissions concentration, the permittee shall return the emissions to within the acceptable range as soon as possible, but no longer than 1 hour of operation after detection. If the portable analyzer readings continue to exceed the allowable emissions concentration after 1 hour of operation after detection, the permittee shall notify the District within the following 1 hour and conduct a certified source test within 60 days of the first exceedance. In lieu of conducting a source test, the permittee may stipulate a violation has occurred, subject to enforcement action. The permittee must then correct the violation, show compliance has been re-established, and resume monitoring procedures. If the deviations are the result of a qualifying breakdown condition pursuant to Rule 1100, the permittee may fully comply with Rule 1100 in lieu of performing the notification and testing required by this condition. [District Rules 4305 and 4306]
24. The permittee shall maintain records of: (1) the date and time of NO_x, CO, and O₂ measurements, (2) the O₂ concentration in percent and the measured NO_x and CO concentrations corrected to 3% O₂, (3) make and model of exhaust gas analyzer, (4) exhaust gas analyzer calibration records, and (5) a description of any corrective action taken to maintain the emissions within the acceptable range. [District Rules 4305 and 4306]
25. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081]
26. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081]
27. This unit shall be tested for compliance with the NO_x, CO, and SO_x emissions limits at least once every 12 months. After demonstrating compliance on two consecutive annual source tests, the unit shall be tested not less than once every thirty-six months. [District Rules 2201, 4305 and 4306]
28. NO_x emissions for source test purposes shall be determined using EPA Method 7E or ARB Method 100 on a ppmv basis, or EPA Method 19 on a heat input basis. NO_x emissions during the source test shall be calculated as the arithmetic average of three 30-consecutive-minute test runs. [District Rules 4305 and 4306]
29. CO emissions for source test purposes shall be determined using EPA Method 10 or ARB Method 100. CO emissions during the source test shall be calculated as the arithmetic average of three 30-consecutive-minute test runs. [District Rules 4305 and 4306]

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

30. SOx emissions for source test purposes shall be determined using EPA Method 19. [District Rule 1081]
31. Stack gas oxygen for source test purposes shall be determined using EPA Method 3 or 3A or ARB Method 100. [District Rules 4305 and 4306]
32. If permittee fails any compliance demonstration for NOx, CO, or SOx emission limits when testing not less than once every 36 months, compliance with NOx, CO, and SOx emission limits shall be demonstrated not less than once every 12 months. [District Rules 2201, 4305 and 4306]
33. All records shall be retained for a period of at least 5 years and shall be made available for District inspection upon request. [District Rule 1070]
34. Pursuant to Rule 4320, beginning in 2010 the operator shall pay an annual emission fee to the District for NOx emissions from this unit for the previous calendar year. Payments are due by July 1 of each year. Payments shall continue annually until either the unit is permanently removed from service in the District or the operator demonstrates compliance with the applicable NOx emission limit listed in Rule 4320. [District Rule 4320]
35. Permittee shall maintain records of annual heat input (MMBtu) for this unit on a calendar year basis. Such records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rules 1070 and Rule 4320]
36. On and after July 1, 2012, the permittee shall submit an analysis showing the fuel's sulfur content at least once every year. Valid purchase contracts, supplier certifications, tariff sheets, or transportation contracts may be used to satisfy this requirement, provided they establish the fuel parameters mentioned above. [District Rule 4320]

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-71-6-5

EXPIRATION DATE: 08/31/2016

SECTION: 35 **TOWNSHIP:** 28S **RANGE:** 25E

EQUIPMENT DESCRIPTION:

LPG TRUCK LOADING/UNLOADING RACKS #6 & #7 INCLUDING TEN LOADING/CHARGE PUMPS NOT TO EXCEED 30 BHP EACH, SIX LIQUID UNLOADING HOSES, SIX VAPOR RECOVERY HOSES, NITROGEN PURGE SYSTEM FOR LIQUID LINES, AND PIPING TO/FROM PERMIT EXEMPT LPG TANKAGE

PERMIT UNIT REQUIREMENTS

1. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
2. The permittee shall not emit more than one half of the major source threshold based on a rolling 12-month summary of actual emissions. [District Rule 2530, 6.1]
3. The permittee shall maintain a record of the rolling 12-month summary of actual emissions from permitted operations. This record shall be kept on site and made available to the District upon request. [District Rule 2530, 6.1]
4. LPG shall only be loaded into trucks dedicated to LPG service. [District NSR Rule]
5. Vapor return hose shall be connected to LPG tank vapor space whenever butane is being loaded. [District NSR Rule]
6. There shall be no more than two liquid hose connects/disconnects per truck load. [District NSR Rule]
7. After completion of truck unloading, liquid lines shall be purged with nitrogen prior to disconnection. [District Rule 4624]
8. The loading and vapor collection equipment shall be maintained and operated such that there are no leaks or no excess organic liquid drainage (as defined in Rule 4624) at disconnections. [District Rule 4624]
9. Volatile organic compound (VOC) emission rate shall not exceed 18.3 lb/day. [District NSR Rule]
10. Permittee shall maintain permit accurate fugitive component counts and resulting emissions calculated using CAPCOA's "California Implementation Guidelines for Estimating Mass Emissions of Fugitive Hydrocarbon Leaks at Petroleum Facilities," Table IV-2c (Feb 1999), Screening Value Range emission factors. [District Rule 2201]
11. The operator shall keep a copy of the APCO-approved Operator Management Plan (OMP) at the facility and make it available to the APCO, ARB and US EPA upon request. By January 30 of each year, the operator shall submit to the APCO for approval, in writing, an annual report indicating any changes to the existing, approved OMP. [District Rule 4455]
12. In accordance with the approved OMP, the operator shall meet all applicable operating, inspection and re-inspection, maintenance, process pressure relief device (PRD), component identification, recordkeeping and notification requirements of Rule 4455 for all components containing or contacting VOC at the this gas liquids processing facility, except for those components specifically exempted in Sections 4.1 and 4.2. [District Rule 4455]
13. Except for those components specified in condition 12, a component shall be considered leaking if one of more of the conditions specified in Sections 5.1.4.1 through 5.1.4.4 of the rule exist at the facility . [District Rule 4455, 5.1.4]

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

14. For valves and connectors, a leak shall be defined as a reading of methane in excess of 100 ppmv above background when measured per EPA Method 21 and Maintenance Program pursuant to District Rule 4455. For pump and compressor seals, a leak shall be defined as a reading of methane in excess of 500 ppmv above background when measure per EPA Method 21 and an Inspection and Maintenance Program pursuant to District Rule 4455. [District Rule 2201]
15. All records required by this permit shall be retained for a period of at least 5 years and shall be made available to the District, ARB, and USEPA upon request. [District Rules 1070 and 4455]

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-71-7-2

EXPIRATION DATE: 08/31/2016

SECTION: 35 TOWNSHIP: 28S RANGE: 25E

EQUIPMENT DESCRIPTION:

320 BHP DIESEL-FIRED EMERGENCY IC ENGINE POWERING A FIREWATER PUMP

PERMIT UNIT REQUIREMENTS

1. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
2. The permittee shall not emit more than one half of the major source threshold based on a rolling 12-month summary of actual emissions. [District Rule 2530, 6.1]
3. The permittee shall maintain a record of the rolling 12-month summary of actual emissions from permitted operations. This record shall be kept on site and made available to the District upon request. [District Rule 2530, 6.1]
4. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201]
5. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity. [District Rule 4101]
6. This engine shall be equipped with an operational non-resettable elapsed time meter or other APCO approved alternative. [District Rule 4702, 17 CCR 93115, and 40 CFR 60 Subpart III]
7. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight is to be used. [District Rules 2201 and 4801, 17 CCR 93115, 40 CFR Part 60 Subpart III]
8. This engine shall be operated and maintained in proper operating condition as recommended by the engine manufacturer or emissions control system supplier. [District Rule 4702 and 40 CFR 60 Subpart III]
9. This engine shall be operated only for maintenance, testing, and required regulatory purposes, and during emergency situations. Operation of the engine for maintenance, testing, and required regulatory purposes shall not exceed 65 hours per year. [District Rules 2201, 4702 and 17 CCR 93115]
10. Particulate matter (PM-10) emission rate shall not exceed 0.36 lb/hr. [District Rule 2201]
11. Sulfur compound emission rate shall not exceed 0.32 lb/hr as SO₂ and 0.00 lb/hr as SO₄. [District Rule 2201]
12. Nitrogen oxide emission rate shall not exceed 4.94 lb/hr. [District Rule 2201]
13. Volatile organic compound (VOC) emission rate shall not exceed 0.40 lb/hr. [District Rule 2201]
14. Carbon monoxide (CO) emission rate shall not exceed 1.06 lb/hr. [District Rule 2201]
15. An emergency situation is an unscheduled electrical power outage caused by sudden and reasonably unforeseen natural disasters or sudden and reasonably unforeseen events beyond the control of the permittee. [District Rule 4702]

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

16. The permittee shall maintain monthly records of emergency and non-emergency operation. Records shall include the number of hours of emergency operation, the date and number of hours of all testing and maintenance operations, the purpose of the operation (for example: load testing, weekly testing, rolling blackout, general area power outage, etc.) and records of operational characteristics monitoring. For units with automated testing systems, the operator may, as an alternative to keeping records of actual operation for testing purposes, maintain a readily accessible written record of the automated testing schedule. [District Rule 4702 and 17 CCR 93115]
17. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rule 4702 and 17 CCR 93115]

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-71-8-2

EXPIRATION DATE: 08/31/2016

SECTION: 35 TOWNSHIP: 28S RANGE: 25E

EQUIPMENT DESCRIPTION:

55 BHP NATURAL GAS-FIRED EMERGENCY STANDBY IC ENGINE POWERING A DRINKING WATER SYSTEM

PERMIT UNIT REQUIREMENTS

1. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
2. The permittee shall not emit more than one half of the major source threshold based on a rolling 12-month summary of actual emissions. [District Rule 2530, 6.1]
3. The permittee shall maintain a record of the rolling 12-month summary of actual emissions from permitted operations. This record shall be kept on site and made available to the District upon request. [District Rule 2530, 6.1]
4. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201]
5. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity. [District Rule 4101]
6. This engine shall be equipped with an operational non-resettable elapsed time meter or other APCO approved alternative. [District Rule 4702, 17 CCR 93115, and 40 CFR 60 Subpart III]
7. This engine shall be operated and maintained in proper operating condition as recommended by the engine manufacturer or emissions control system supplier. [District Rule 4702 and 40 CFR 60 Subpart III]
8. This engine shall be operated only for testing and maintenance of the engine, required regulatory purposes, and during emergency situations. Operation of the engine for maintenance, testing, and required regulatory purposes shall not exceed 100 hours per calendar year. [District Rule 4702]
9. During periods of operation for maintenance, testing, and required regulatory purposes, the permittee shall monitor the operational characteristics of the engine as recommended by the manufacturer or emission control system supplier (for example: check engine fluid levels, battery, cables and connections; change engine oil and filters; replace engine coolant; and/or other operational characteristics as recommended by the manufacturer or supplier). [District Rule 4702]
10. An emergency situation is an unscheduled electrical power outage caused by sudden and reasonably unforeseen natural disasters or sudden and reasonably unforeseen events beyond the control of the permittee. [District Rule 4702]
11. This engine shall not be used to produce power for the electrical distribution system, as part of a voluntary utility demand reduction program, or for an interruptible power contract. [District Rule 4702]
12. The permittee shall maintain monthly records of emergency and non-emergency operation. Records shall include the number of hours of emergency operation, the date and number of hours of all testing and maintenance operations, the purpose of the operation (for example: load testing, weekly testing, rolling blackout, general area power outage, etc.) and records of operational characteristics monitoring. For units with automated testing systems, the operator may, as an alternative to keeping records of actual operation for testing purposes, maintain a readily accessible written record of the automated testing schedule. [District Rule 4702 and 17 CCR 93115]

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

13. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rule 4702 and 17 CCR 93115]

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-71-10-3

EXPIRATION DATE: 08/31/2016

SECTION: 35 **TOWNSHIP:** 28S **RANGE:** 25W

EQUIPMENT DESCRIPTION:

208 BHP DIESEL-FIRED EMERGENCY IC ENGINE POWERING A FIREWATER PUMP

PERMIT UNIT REQUIREMENTS

1. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
2. The permittee shall not emit more than one half of the major source threshold based on a rolling 12-month summary of actual emissions. [District Rule 2530, 6.1]
3. The permittee shall maintain a record of the rolling 12-month summary of actual emissions from permitted operations. This record shall be kept on site and made available to the District upon request. [District Rule 2530, 6.1]
4. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201]
5. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity. [District Rule 4101]
6. This engine shall be equipped with an operational non-resettable elapsed time meter or other APCO approved alternative. [District Rule 4702, 17 CCR 93115, and 40 CFR 60 Subpart III]
7. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight is to be used. [District Rules 2201 and 4801, 17 CCR 93115, 40 CFR Part 60 Subpart III]
8. This engine shall be operated and maintained in proper operating condition as recommended by the engine manufacturer or emissions control system supplier. [District Rule 4702 and 40 CFR 60 Subpart III]
9. This engine shall be operated only for maintenance, testing, and required regulatory purposes, and during emergency situations. Operation of the engine for maintenance, testing, and required regulatory purposes shall not exceed 65 hours per year. [District Rules 2201, 4701, and 4702 and 17 CCR 93115]
10. Injection timing shall be retarded to 4 degrees BTDC. [District Rule 2201]
11. Sulfur compound emission rate shall not exceed 0.06 lb/hr as SO₂ and 0.09 lb/hr as SO₄. [District Rule 2201]
12. Nitrogen oxide emission rate shall not exceed 3.33 lb/hr as NO₂. [District Rule 2201]
13. Volatile organic compound (VOC) emission rate shall not exceed 0.27 lb/hr. [District Rule 2201]
14. Carbon monoxide (CO) emission rate shall not exceed 0.72 lb/hr. [District Rule 2201]
15. An emergency situation is an unscheduled electrical power outage caused by sudden and reasonably unforeseen natural disasters or sudden and reasonably unforeseen events beyond the control of the permittee. [District Rule 4702]

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

16. The permittee shall maintain monthly records of emergency and non-emergency operation. Records shall include the number of hours of emergency operation, the date and number of hours of all testing and maintenance operations, the purpose of the operation (for example: load testing, weekly testing, rolling blackout, general area power outage, etc.) and records of operational characteristics monitoring. For units with automated testing systems, the operator may, as an alternative to keeping records of actual operation for testing purposes, maintain a readily accessible written record of the automated testing schedule. [District Rule 4702 and 17 CCR 93115]
17. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rule 4702 and 17 CCR 93115]

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-71-12-6

EXPIRATION DATE: 08/31/2016

SECTION: 35 **TOWNSHIP:** 28S **RANGE:** 25E

EQUIPMENT DESCRIPTION:

RAILCAR LPG/NATURAL GASOLINE LOADING/UNLOADING OPERATION WITH FIFTEEN LPG/NATURAL GASOLINE LOADING/UNLOADING STATIONS INCLUDING: ELEVATED RACK SYSTEM UTILIZING HARD PIPING AND SWIVEL JOINTS; AND NITROGEN PURGE SYSTEM SERVING LIQUID LINES, COMPRESSOR SEALS, AND COMPRESSOR CRANKCASES

PERMIT UNIT REQUIREMENTS

1. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
2. The permittee shall not emit more than one half of the major source threshold based on a rolling 12-month summary of actual emissions. [District Rule 2530, 6.1]
3. The permittee shall maintain a record of the rolling 12-month summary of actual emissions from permitted operations. This record shall be kept on site and made available to the District upon request. [District Rule 2530, 6.1]
4. Operation shall include 15 railcar loading/unloading stations each equipped with two (2) liquid lines and one (1) vapor return line for a total of 45 loading arms with 225 swivel joints. [District Rule 2201]
5. The nitrogen purge system serving the liquid lines shall be a closed loop system and shall not vent to the atmosphere during operation of the system. [District Rule 2201]
6. The nitrogen purge system serving the compressor seals and compressor crankcases shall vent through two activated charcoal canisters connected in series, except during scheduled maintenance or repair activities. During repair and maintenance (such as charcoal bed change out) VOC emissions shall be minimized to the fullest extent possible. [District Rule 2201]
7. The nitrogen purge system's used activated charcoal canisters shall be handled and disposed of in sealed containers, preventing VOC emissions to the fullest extent possible. [District Rule 2201]
8. The nitrogen purge system's activated charcoal canisters shall be replaced to maintain the VOC concentration from the canister vent less than 4,500 ppmv-VOC or periodically as recommended by the manufacturer, whichever occurs first. [District Rule 2201]
9. Operation shall include three vapor compressors equipped with knock-out vessels and not exceeding 100 hp each, three compressor knock-out drum pumps, and five turbine pumps. [District Rule 2201]
10. Fugitive VOC emissions from valves, flanges, connectors, pump seals, and other fugitive components associated with this permit unit shall not exceed 67.8 lb/day. [District Rule 2201]
11. Maximum VOC emissions from railcar loading/unloading (vapor and liquid losses combined) operation shall not exceed 2.3 lb/day. [District Rule 2201]
12. The permittee shall maintain with the permit accurate fugitive component counts and resulting emissions calculated using "California Implementation Guidelines for estimating Mass Emissions of Fugitive Hydrocarbon Leaks at Petroleum Facilities", Oil and Gas Production Operations Screening Value Ranges Emission Factors Table IV-2c Feb 1999. [District Rule 2201]

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

13. The permittee shall comply with all inspection, maintenance, testing, and recordkeeping requirements of Rules 4624 for the organic liquid loading operation. [District Rule 4624]
14. The loading racks shall be equipped with a vapor return system consisting of vapor and condensate collection systems capable of reducing VOC emissions by at least 95%. [District Rule 2201]
15. There shall be no more than 120 liquid hose connects/disconnects in any one day. [District Rule 2201]
16. There shall be no more than 60 vapor hose connect/disconnect in any one day. [District Rule 2201]
17. Permittee shall keep accurate records of railcar loadings/unloadings, connects/disconnects, and liquid types. [District Rule 1070]
18. Records required by this permit shall be retained on site for a period of at least five years and shall be made readily available for District inspection upon request. [District Rule 1070]
19. The operator shall keep a copy of the APCO-approved Operator Management Plan (OMP) at the facility and make it available to the APCO, ARB and US EPA upon request. By January 30 of each year, the operator shall submit to the APCO for approval, in writing, an annual report indicating any changes to the existing, approved OMP. [District Rule 4455]
20. In accordance with the approved OMP, the operator shall meet all applicable operating, inspection and re-inspection, maintenance, process pressure relief device (PRD), component identification, recordkeeping and notification requirements of Rule 4455 for all components containing or contacting VOC at the this gas liquids processing facility, except for those components specifically exempted in Sections 4.1 and 4.2. [District Rule 4455]
21. Except for those components specified in condition 20, a component shall be considered leaking if one of more of the conditions specified in Sections 5.1.4.1 through 5.1.4.4 of the rule exist at the facility . [District Rule 4455, 5.1.4]
22. For valves and connectors, a leak shall be defined as a reading of methane in excess of 100 ppmv above background when measured per EPA Method 21 and Maintenance Program pursuant to District Rule 4455. For pump and compressor seals, a leak shall be defined as a reading of methane in excess of 500 ppmv above background when measure per EPA Method 21 and an Inspection and Maintenance Program pursuant to District Rule 4455. [District Rule 2201]
23. All records required by this permit shall be retained for a period of at least 5 years and shall be made available to the District, ARB, and USEPA upon request. [District Rules 1070 and 4455]

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-71-14-10

EXPIRATION DATE: 08/31/2016

SECTION: SW35 **TOWNSHIP:** 28S **RANGE:** 25E

EQUIPMENT DESCRIPTION:

BUTAMER-BUTANE ISOMERIZATION UNIT #2 WITH 105 MMBTU/HR GAS-FIRED HOT OIL HEATER H-202 EQUIPPED WITH CALLIDUS MODEL CUBR-12W LOW-NOX BURNERS AND INTERNAL FGR, WITH NITROGEN PURGE SYSTEM SERVING COMPRESSOR SEALS AND COMPRESSOR CRANKCASES

PERMIT UNIT REQUIREMENTS

1. The permittee shall not emit more than one half of the major source threshold based on a rolling 12-month summary of actual emissions. [District Rule 2530, 6.1]
2. The permittee shall maintain a record of the rolling 12-month summary of actual emissions from permitted operations. This record shall be kept on site and made available to the District upon request. [District Rule 2530, 6.1]
3. Operation shall include deisobutanizer tower T-202, stabilizer tower V-503, caustic scrubber tower V-110A, two butamer reactor vessels V-501 A/B, stabilizer receiver vessel V-502, and deisobutanizer overhead accumulator vessel V-203. [District Rule 2201]
4. Operation shall include seventeen shell & tube heat exchangers, four air-cooled heat exchangers, 350 hp recycle gas compressor C-401, and 20 hp emergency vent drum vapor compressor C-501. [District Rule 2201]
5. Perchloroethylene shall be received, stored, and transferred using a pressurized and/or enclosed system shared with permit unit #S-71-4. [District Rule 2201]
6. A non-resettable, totalizing mass or volumetric fuel flow meter to measure the amount of fuel gas combusted in the unit shall be installed, utilized and maintained. [District Rule 2201]
7. Fuel gas combusted in fired equipment may be comprised of process off-gas (including hydrogen), propane, butane, natural gas, or any combination thereof. [District Rule 2201]
8. The heating value of the fuel gas (Btu/scf @ the hhv) combusted in fired equipment shall be determined by sample analysis at least annually. Results of sample analysis shall be retained on site and made available for District inspection upon request. [District Rule 2201]
9. Total heat input of fuel gas combusted in units S-71-4, '5, '14 and '15 shall not exceed 1,602,019 MMBtu/yr. [District Rule 2201]
10. The nitrogen purge system serving the liquid lines shall be a closed loop system and shall not vent to the atmosphere during operation of the system. [District Rule 2201]
11. The nitrogen purge system serving the compressor seals and compressor crankcases shall vent through two activated charcoal canisters connected in series, except during scheduled maintenance or repair activities. During repair and maintenance (such as charcoal bed change out) VOC emissions shall be minimized to the fullest extent possible. [District Rule 2201]
12. The nitrogen purge system's used activated charcoal canisters shall be handled and disposed of in sealed containers, preventing VOC emissions to the fullest extent possible. [District Rule 2201]

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE
These terms and conditions are part of the Facility-wide Permit to Operate.

13. The nitrogen purge system's activated charcoal canisters shall be replaced to maintain the VOC concentration from the canister vent less than 4,500 ppmv-VOC or periodically as recommended by the manufacturer, whichever occurs first. [District Rule 2201]
14. Maximum fugitive VOC emissions from permits #S-71-14 and '15 shall not exceed 63.2 lb per day. [District Rule 2201]
15. Permittee shall maintain permit accurate fugitive component counts and resulting emissions calculated using CAPCOA's "California Implementation Guidelines for Estimating Mass Emissions of Fugitive Hydrocarbon Leaks at Petroleum Facilities," February 1999, Table IV-2c: CAPCOA Oil and Gas Production Screening Value Range Emission Factors. [District Rule 2201]
16. Emission rates shall not exceed any of the following: PM10: 0.0137 lb/MMBtu; NOx (as NO2): 25 ppmv @ 3% O2; SOx (as SO2): 0.0006 lb MMBtu; VOC: 0.00141 lb/MMBtu; or CO: 50 ppmv @ 3% O2. [District Rule 2201]
17. Process oil heater stack shall be equipped with sampling facilities for source testing in accordance with the provisions of Rule 1081 (Source Sampling). [District Rule 1081]
18. The emission control systems shall be in operation and emissions shall be minimized insofar as technologically feasible during startup and shutdown. [District Rules 4305 & 4306]
19. The duration of each startup and shutdown period for the 105 MMBtu/hr gas-fired hot oil heater shall not exceed 5.5 hours and 2.0 hours respectively. Emission limits of Rules 4305 and 4306 are waived during periods of startup and shutdown. [District Rules 4305 & 4306]
20. The permittee shall maintain records of the duration of each startup period for the 105 MMBtu/hr gas-fired hot oil heater. [District Rules 4305 & 4306]
21. The stack concentration of NOx (as NO2), CO, and O2 shall be measured at least on a monthly basis using District approved portable analyzers. [District Rules 4305 and 4306]
22. The permittee shall maintain records of the date and time of NOx, CO, and O2 measurements, the measured NO2 and CO concentrations corrected to 3% O2, and the O2 concentration. The records shall also include a description of any corrective action taken to maintain the emissions in the acceptable range. These records shall be retained at the facility for a period of no less than five years and shall be made readily available for District inspection upon request. [District Rules 1070, 4305 and 4306]
23. If the NOx and/or CO concentrations, as measured by the portable analyzer, exceed the permitted emission limits, the permittee or third party shall notify the District and return the NOx and CO concentrations to the permitted emission limits as soon as possible but no longer than one (1) hour after detection. If the portable analyzer readings continue to exceed the permitted emission limits after (1) hour, the permittee shall conduct a source test within 60 days, of the first exceedance to demonstrate compliance with the permitted emission limits. [District Rules 4305 and 4306]
24. District witnessed compliance source testing for NOx, CO, and SOx emission limits shall be conducted at least once every 12 months, except as provided below. [District Rules 2201, 4305 and 4306]
25. District witnessed source testing to demonstrate compliance with NOx, CO, and SOx emission limits shall be conducted not less than once every 36 months if compliance is demonstrated on two consecutive annual tests. [District Rules 2201, 4305 and 4306]
26. If permittee fails any compliance demonstration for NOx, CO, or SOx emission limits when testing not less than once every 36 months, compliance with NOx, CO, and SOx emission limits shall be demonstrated not less than once every 12 months. [District Rules 2201, 4305 and 4306]
27. Compliance demonstration (source testing) shall be by District witnessed, or authorized, sample collection by ARB certified testing laboratory. [District Rule 1081]
28. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified 30 days prior to any compliance source test, and a source test plan must be submitted for approval 15 days prior to testing. [District Rule 1081]
29. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081]

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

30. For the purposes of source testing, the following test methods shall be used: NO_x (ppmv) - EPA Method 7E or ARB Method 100, CO (ppmv) - EPA Method 10 or ARB Method 100, SO_x (lb/MMBtu) - EPA Method 19, and stack gas oxygen - EPA Method 3 or 3A or ARB Method 100. [District Rules 1081, 4305 and 4306]
31. When the LPG supply source for make up fuel to the fuel gas system changes, the stack concentrations of NO_x, CO, and O₂ shall be measured with a District approved portable analyzer to verify emissions compliance. This is to be done anytime that LPG is being vaporized to supply make up fuel to the fuel gas system. [District Rule 2201, 4301, 4305 and 4306]
32. Permittee shall maintain accurate records of perchloroethylene usage, fuel gas heating value and daily, monthly and yearly records of fuel gas use. [District Rules 1070 and 2201]
33. Permittee shall maintain accurate monthly records of the combined fuel gas combusted in units S-71-4, '15, '14 and '15. [District Rules 1070 and 2201]
34. The operator shall keep a copy of the APCO-approved Operator Management Plan (OMP) at the facility and make it available to the APCO, ARB and US EPA upon request. By January 30 of each year, the operator shall submit to the APCO for approval, in writing, an annual report indicating any changes to the existing, approved OMP. [District Rule 4455]
35. In accordance with the approved OMP, the operator shall meet all applicable operating, inspection and re-inspection, maintenance, process pressure relief device (PRD), component identification, recordkeeping and notification requirements of Rule 4455 for all components containing or contacting VOC at the this gas liquids processing facility, except for those components specifically exempted in Sections 4.1 and 4.2. [District Rule 4455]
36. Except for those components specified in condition 32, a component shall be considered leaking if one of more of the conditions specified in Sections 5.1.4.1 through 5.1.4.4 of the rule exist at the facility . [District Rule 4455, 5.1.4]
37. For valves and connectors, a leak shall be defined as a reading of methane in excess of 100 ppmv above background when measured per EPA Method 21 and Maintenance Program pursuant to District Rule 4455. For pump and compressor seals, a leak shall be defined as a reading of methane in excess of 500 ppmv above background when measure per EPA Method 21 and an Inspection and Maintenance Program pursuant to District Rule 4455. [District Rule 2201]
38. All records required by this permit shall be retained for a period of at least 5 years and shall be made available to the District, ARB, and USEPA upon request. [District Rules 1070 and 4455]

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-71-15-8

EXPIRATION DATE: 08/31/2016

SECTION: SW35 TOWNSHIP: 28S RANGE: 25E

EQUIPMENT DESCRIPTION:

SAFECAT FEEDSTOCK TREATMENT UNIT WITH 23 MMBTU/HR GAS-FIRED HEATER H-401 EQUIPPED WITH CALLIDUS MODEL CUBR-8P LOW-NOX BURNERS AND INTERNAL FGR

PERMIT UNIT REQUIREMENTS

1. The permittee shall not emit more than one half of the major source threshold based on a rolling 12-month summary of actual emissions. [District Rule 2530, 6.1]
2. The permittee shall maintain a record of the rolling 12-month summary of actual emissions from permitted operations. This record shall be kept on site and made available to the District upon request. [District Rule 2530, 6.1]
3. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity. [District Rule 4101]
4. A non-resettable, totalizing mass or volumetric fuel flow meter to measure the amount of fuel gas combusted in the unit shall be installed, utilized and maintained. [District Rule 2201]
5. Operation shall include SafeCat feed surge drum V-401, SafeCat reactor vessel V-402, SafeCat product separator vessel V-403, depropanizer receiver boot V-7, sulfur injection drum V-407, and three SafeCat adsorber vessels V-405 A/B/C. [District Rule 2201]
6. Operation shall include two SulfaTreat adsorber vessels V-102 A/B, SafeCat Feed prefilter vessel F-401, five shell & tube heat exchangers, and air-cooled heat exchanger. [District Rule 2201]
7. SafeCat feedstock treatment system gas shall be routed only to SafeCat feed stream or SulfaTreat sulfur removal equipment prior to introduction into facility fuel gas system. [District Rule 2201]
8. No on-site regeneration of SulfaTreat chemical is authorized. [District Rule 2201]
9. Gas combusted in fired equipment may be comprised of process off-gas (including hydrogen), propane, butane, natural gas, or any combination thereof. [District Rule 2201]
10. The heating value of the fuel gas (Btu/scf @ the hhv) combusted in fired equipment shall be determined by sample analysis at least annually. Results of sample analysis shall be retained on site and made available for District inspection upon request. [District Rule 2201]
11. Total heat input of fuel gas combusted in units S-71-4, '5, '14 and '15 shall not exceed 1,602,019 MM Btu/yr. [District Rule 2201]
12. Leaks from valves, connectors, and other components (not including pump and compressor seals) subject to a BACT requirement and subject to the provisions of Rule 4455 shall be defined as a reading of methane on a portable hydrocarbon detection instrument in excess of 100 ppmv above background when measured as close as possible but not greater than one (1) cm from the potential source. [District Rule 2201]

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

13. Leaks from pump and compressor seals subject to a BACT requirement and subject to the provisions of Rule 4455 shall be defined as a reading of methane on a portable hydrocarbon detection instrument in excess of 500 ppmv above background when measured as close as possible but not greater than one (1) cm from potential source. [District Rule 2201]
14. Maximum fugitive VOC emissions from permits #S-71-14 and '-15 shall not exceed 63.2 lb per day. [District Rule 2201]
15. Permittee shall maintain permit accurate fugitive component counts and resulting emissions calculated using CAPCOA's "California Implementation Guidelines for Estimating Mass Emissions of Fugitive Hydrocarbon Leaks at Petroleum Facilities," February 1999, Table IV-2c: CAPCOA Oil and Gas Production Screening Value Range Emission Factors. [District Rule 2201]
16. Emission rates shall not exceed any of the following: PM10: 0.0137 lb/MMBtu; NO_x (as NO₂): 25 ppmv @ 3% O₂; SO_x (as SO₂): 0.0006 lb MMBtu; VOC: 0.00279 lb/MMBtu; or CO: 50 ppmv @ 3% O₂. [District Rule 2201]
17. SafeCat heater stack shall be equipped with sampling facilities for source testing in accordance with the provisions of Rule 1081 (Source Sampling). [District Rule 1081]
18. The emission control systems shall be in operation and emissions shall be minimized insofar as technologically feasible during startup and shutdown. [District Rules 4305 & 4306]
19. The duration of each startup and shutdown period for the 23 MMBtu/hr gas-fired heater shall not exceed 7.7 hours and 2.0 hours respectively. Emission limits of Rules 4305 and 4306 are waived during periods of startup and shutdown. [District Rules 4305 & 4306]
20. The permittee shall maintain records of the duration of each startup period for the 23 MMBtu/hr gas-fired heater. [District Rules 4305 & 4306]
21. The permittee shall monitor and record the stack concentration of NO_x (as NO₂), CO, and O₂ at least once every month using a portable emission monitor. Monitoring shall not be required if the unit is not in operation, i.e. the unit need not be started solely to perform monitoring. Monitoring shall be performed within 5 days of restarting the unit unless monitoring has been performed within the last month. [District Rules 4305 and 4306]
22. If the NO_x and/or CO concentrations corrected to 3% O₂, as measured by the portable analyzer, exceed the allowable emissions concentration, the permittee shall return the emissions to within the acceptable range as soon as possible, but no longer than 1 hour of operation after detection. If the portable analyzer readings continue to exceed the allowable emissions concentration after 1 hour of operation after detection, the permittee shall notify the District within the following 1 hour and conduct a certified source test within 60 days of the first exceedance. In lieu of conducting a source test, the permittee may stipulate a violation has occurred, subject to enforcement action. The permittee must then correct the violation, show compliance has been re-established, and resume monitoring procedures. If the deviations are the result of a qualifying breakdown condition pursuant to Rule 1100, the permittee may fully comply with Rule 1100 in lieu of performing the notification and testing required by this condition. [District Rules 4305 and 4306]
23. The permittee shall maintain records of: (1) the date and time of NO_x, CO, and O₂ measurements, (2) the O₂ concentration in percent and the measured NO_x and CO concentrations corrected to 3% O₂, (3) make and model of exhaust gas analyzer, (4) exhaust gas analyzer calibration records, and (5) a description of any corrective action taken to maintain the emissions within the acceptable range. [District Rules 4305 and 4306]
24. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081]
25. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081]
26. This unit shall be tested for compliance with the NO_x, CO, and SO_x emissions limits at least once every 12 months. After demonstrating compliance on two consecutive annual source tests, the unit shall be tested not less than once every thirty-six months. [District Rules 2201, 4305 and 4306]

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

27. NOx emissions for source test purposes shall be determined using EPA Method 7E or ARB Method 100 on a ppmv basis, or EPA Method 19 on a heat input basis. NOx emissions during the source test shall be calculated as the arithmetic average of three 30-consecutive-minute test runs. [District Rules 4305 and 4306]
28. CO emissions for source test purposes shall be determined using EPA Method 10 or ARB Method 100. CO emissions during the source test shall be calculated as the arithmetic average of three 30-consecutive-minute test runs. [District Rules 4305 and 4306]
29. SOx emissions for source test purposes shall be determined using EPA Method 19. [District Rule 1081]
30. Stack gas oxygen for source test purposes shall be determined using EPA Method 3 or 3A or ARB Method 100. [District Rules 4305 and 4306]
31. If permittee fails any compliance demonstration for NOx, CO, or SOx emission limits when testing not less than once every 36 months, compliance with NOx, CO, and SOx emission limits shall be demonstrated not less than once every 12 months. [District Rules 2201, 4305 and 4306]
32. When the LPG supply source for make up fuel to the fuel gas system changes, the stack concentrations of NOx, CO, and O2 shall be measured with a District approved portable analyzer to verify emissions compliance. This is to be done anytime that LPG is being vaporized to supply make up fuel to the fuel gas system. [District Rule 2201, 4301, 4305 and 4306]
33. Permittee shall maintain accurate records of perchloroethylene usage, fuel gas heat input, and daily, monthly and yearly records of fuel gas use. [District Rules 1070 and 2201]
34. Permittee shall maintain accurate monthly records of the combined heat input of the fuel gas combusted in units S-71-4, '5, '14 and '15. [District Rules 1070 and 2201]
35. The operator shall keep a copy of the APCO-approved Operator Management Plan (OMP) at the facility and make it available to the APCO, ARB and US EPA upon request. By January 30 of each year, the operator shall submit to the APCO for approval, in writing, an annual report indicating any changes to the existing, approved OMP. [District Rule 4455]
36. In accordance with the approved OMP, the operator shall meet all applicable operating, inspection and re-inspection, maintenance, process pressure relief device (PRD), component identification, recordkeeping and notification requirements of Rule 4455 for all components containing or contacting VOC at the this gas liquids processing facility, except for those components specifically exempted in Sections 4.1 and 4.2. [District Rule 4455]
37. Except for those components specified in condition 36, a component shall be considered leaking if one of more of the conditions specified in Sections 5.1.4.1 through 5.1.4.4 of the rule exist at the facility . [District Rule 4455, 5.1.4]
38. For valves and connectors, a leak shall be defined as a reading of methane in excess of 100 ppmv above background when measured per EPA Method 21 and Maintenance Program pursuant to District Rule 4455. For pump and compressor seals, a leak shall be defined as a reading of methane in excess of 500 ppmv above background when measured per EPA Method 21 and an Inspection and Maintenance Program pursuant to District Rule 4455. [District Rule 2201]
39. All records required by this permit shall be retained for a period of at least 5 years and shall be made available to the District, ARB, and USEPA upon request. [District Rules 1070 and 4455]

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-71-17-1

EXPIRATION DATE: 08/31/2016

SECTION: SW35 **TOWNSHIP:** 28S **RANGE:** 25E

EQUIPMENT DESCRIPTION:

267 BHP CATERPILLAR MODEL 3306 DIESEL-FIRED EMERGENCY IC ENGINE POWERING A FIREWATER PUMP

PERMIT UNIT REQUIREMENTS

1. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
2. The permittee shall not emit more than one half of the major source threshold based on a rolling 12-month summary of actual emissions. [District Rule 2530, 6.1]
3. The permittee shall maintain a record of the rolling 12-month summary of actual emissions from permitted operations. This record shall be kept on site and made available to the District upon request. [District Rule 2530, 6.1]
4. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201]
5. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity. [District Rule 4101]
6. The engine shall be equipped with a turbocharger and with an aftercooler or intercooler. [District NSR Rule]
7. This engine shall be equipped with an operational non-resettable elapsed time meter or other APCO approved alternative. [District Rule 4702, 17 CCR 93115, and 40 CFR 60 Subpart III]
8. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight is to be used. [District Rules 2201 and 4801, 17 CCR 93115, 40 CFR Part 60 Subpart III]
9. This engine shall be operated and maintained in proper operating condition as recommended by the engine manufacturer or emissions control system supplier. [District Rule 4702 and 40 CFR 60 Subpart III]
10. This engine shall be operated only for maintenance, testing, and required regulatory purposes, and during emergency situations. Operation of the engine for maintenance, testing, and required regulatory purposes shall not exceed 65 hours per year. [District Rules 2201, 4701, and 4702 and 17 CCR 93115]
11. Emissions rates from this engine shall not exceed NO_x, 4.24 lb/hr; PM₁₀, 0.59 lb/hr; CO, 1.78 lb/hr or VOC, 0.67 lb/hr. [District Rule 2201]
12. Operation of the engine shall not exceed 23 hours per day. [District Rule 2201]
13. An emergency situation is an unscheduled electrical power outage caused by sudden and reasonably unforeseen natural disasters or sudden and reasonably unforeseen events beyond the control of the permittee. [District Rule 4702]
14. The permittee shall maintain monthly records of emergency and non-emergency operation. Records shall include the number of hours of emergency operation, the date and number of hours of all testing and maintenance operations, the purpose of the operation (for example: load testing, weekly testing, rolling blackout, general area power outage, etc.) and records of operational characteristics monitoring. For units with automated testing systems, the operator may, as an alternative to keeping records of actual operation for testing purposes, maintain a readily accessible written record of the automated testing schedule. [District Rule 4702 and 17 CCR 93115]

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

15. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rule 4702 and 17 CCR 93115]

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-71-18-0

EXPIRATION DATE: 08/31/2016

SECTION: SW35 **TOWNSHIP:** 28S **RANGE:** 25E

EQUIPMENT DESCRIPTION:

14,544 GALLON HORIZONTAL CYLINDRICAL NATURAL GASOLINE/LPG STORAGE TANK #1

PERMIT UNIT REQUIREMENTS

1. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
2. The permittee shall not emit more than one half of the major source threshold based on a rolling 12-month summary of actual emissions. [District Rule 2530, 6.1]
3. The permittee shall maintain a record of the rolling 12-month summary of actual emissions from permitted operations. This record shall be kept on site and made available to the District upon request. [District Rule 2530, 6.1]
4. Tank shall be maintained under working pressure sufficient at all times to prevent organic liquid loss or VOC loss to the atmosphere. [District Rule 4623]
5. Equipment shall be maintained gas tight and liquid leak free as defined in Rule 4451. [District Rule 4451]
6. Fugitive emission components shall be monitored and maintained pursuant to Rule 4451. [District Rule 4451]
7. All records shall be retained for a period of at least 5 years and shall be made available for District inspection upon request. [District Rule 1070]

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-71-19-0

EXPIRATION DATE: 08/31/2016

SECTION: SW35 **TOWNSHIP:** 28S **RANGE:** 25E

EQUIPMENT DESCRIPTION:

14,544 GALLON HORIZONTAL CYLINDRICAL NATURAL GASOLINE/LPG STORAGE TANK #2

PERMIT UNIT REQUIREMENTS

1. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
2. The permittee shall not emit more than one half of the major source threshold based on a rolling 12-month summary of actual emissions. [District Rule 2530, 6.1]
3. The permittee shall maintain a record of the rolling 12-month summary of actual emissions from permitted operations. This record shall be kept on site and made available to the District upon request. [District Rule 2530, 6.1]
4. Tank shall be maintained under working pressure sufficient at all times to prevent organic liquid loss or VOC loss to the atmosphere. [District Rule 4623]
5. Equipment shall be maintained gas tight and liquid leak free as defined in Rule 4451. [District Rule 4451]
6. Fugitive emission components shall be monitored and maintained pursuant to Rule 4451. [District Rule 4451]
7. All records shall be retained for a period of at least 5 years and shall be made available for District inspection upon request. [District Rule 1070]

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-71-20-0

EXPIRATION DATE: 08/31/2016

SECTION: SW25 **TOWNSHIP:** 28E **RANGE:** 25E

EQUIPMENT DESCRIPTION:

16,505 GALLON HORIZONTAL CYLINDRICAL NATURAL GASOLINE/LPG STORAGE TANK #3

PERMIT UNIT REQUIREMENTS

1. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
2. The permittee shall not emit more than one half of the major source threshold based on a rolling 12-month summary of actual emissions. [District Rule 2530, 6.1]
3. The permittee shall maintain a record of the rolling 12-month summary of actual emissions from permitted operations. This record shall be kept on site and made available to the District upon request. [District Rule 2530, 6.1]
4. Tank shall be maintained under working pressure sufficient at all times to prevent organic liquid loss or VOC loss to the atmosphere. [District Rule 4623]
5. Equipment shall be maintained gas tight and liquid leak free as defined in Rule 4451. [District Rule 4451]
6. Fugitive emission components shall be monitored and maintained pursuant to Rule 4451. [District Rule 4451]
7. All records shall be retained for a period of at least 5 years and shall be made available for District inspection upon request. [District Rule 1070]

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-71-21-0

EXPIRATION DATE: 08/31/2016

SECTION: SW35 **TOWNSHIP:** 28S **RANGE:** 25E

EQUIPMENT DESCRIPTION:

15,000 GALLON HORIZONTAL CYLINDRICAL NATURAL GASOLINE/LPG STORAGE TANK #4

PERMIT UNIT REQUIREMENTS

1. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
2. The permittee shall not emit more than one half of the major source threshold based on a rolling 12-month summary of actual emissions. [District Rule 2530, 6.1]
3. The permittee shall maintain a record of the rolling 12-month summary of actual emissions from permitted operations. This record shall be kept on site and made available to the District upon request. [District Rule 2530, 6.1]
4. Tank shall be maintained under working pressure sufficient at all times to prevent organic liquid loss or VOC loss to the atmosphere. [District Rule 4623]
5. Equipment shall be maintained gas tight and liquid leak free as defined in Rule 4451. [District Rule 4451]
6. Fugitive emission components shall be monitored and maintained pursuant to Rule 4451. [District Rule 4451]
7. All records shall be retained for a period of at least 5 years and shall be made available for District inspection upon request. [District Rule 1070]

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-71-22-0

EXPIRATION DATE: 08/31/2016

SECTION: SW35 **TOWNSHIP:** 28S **RANGE:** 25E

EQUIPMENT DESCRIPTION:

15,249 GALLON HORIZONTAL CYLINDRICAL NATURAL GASOLINE/LPG STORAGE TANK #5

PERMIT UNIT REQUIREMENTS

1. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
2. The permittee shall not emit more than one half of the major source threshold based on a rolling 12-month summary of actual emissions. [District Rule 2530, 6.1]
3. The permittee shall maintain a record of the rolling 12-month summary of actual emissions from permitted operations. This record shall be kept on site and made available to the District upon request. [District Rule 2530, 6.1]
4. Tank shall be maintained under working pressure sufficient at all times to prevent organic liquid loss or VOC loss to the atmosphere. [District Rule 4623]
5. Equipment shall be maintained gas tight and liquid leak free as defined in Rule 4451. [District Rule 4451]
6. Fugitive emission components shall be monitored and maintained pursuant to Rule 4451. [District Rule 4451]
7. All records shall be retained for a period of at least 5 years and shall be made available for District inspection upon request. [District Rule 1070]

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-71-23-0

EXPIRATION DATE: 08/31/2016

SECTION: SW35 **TOWNSHIP:** 28S **RANGE:** 25E

EQUIPMENT DESCRIPTION:

15,187 GALLON HORIZONTAL CYLINDRICAL NATURAL GASOLINE/LPG STORAGE TANK #6

PERMIT UNIT REQUIREMENTS

1. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
2. The permittee shall not emit more than one half of the major source threshold based on a rolling 12-month summary of actual emissions. [District Rule 2530, 6.1]
3. The permittee shall maintain a record of the rolling 12-month summary of actual emissions from permitted operations. This record shall be kept on site and made available to the District upon request. [District Rule 2530, 6.1]
4. Tank shall be maintained under working pressure sufficient at all times to prevent organic liquid loss or VOC loss to the atmosphere. [District Rule 4623]
5. Equipment shall be maintained gas tight and liquid leak free as defined in Rule 4451. [District Rule 4451]
6. Fugitive emission components shall be monitored and maintained pursuant to Rule 4451. [District Rule 4451]
7. All records shall be retained for a period of at least 5 years and shall be made available for District inspection upon request. [District Rule 1070]

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**San Joaquin Valley
Air Pollution Control District**

PERMIT UNIT: S-71-24-0

EXPIRATION DATE: 08/31/2016

SECTION: SW35 **TOWNSHIP:** 28S **RANGE:** 25E

EQUIPMENT DESCRIPTION:

98,913 GALLON HORIZONTAL CYLINDRICAL NATURAL GASOLINE/LPG STORAGE TANK #64

PERMIT UNIT REQUIREMENTS

1. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
2. The permittee shall not emit more than one half of the major source threshold based on a rolling 12-month summary of actual emissions. [District Rule 2530, 6.1]
3. The permittee shall maintain a record of the rolling 12-month summary of actual emissions from permitted operations. This record shall be kept on site and made available to the District upon request. [District Rule 2530, 6.1]
4. Tank shall be maintained under working pressure sufficient at all times to prevent organic liquid loss or VOC loss to the atmosphere. [District Rule 4623]
5. Equipment shall be maintained gas tight and liquid leak free as defined in Rule 4451. [District Rule 4451]
6. Fugitive emission components shall be monitored and maintained pursuant to Rule 4451. [District Rule 4451]
7. All records shall be retained for a period of at least 5 years and shall be made available for District inspection upon request. [District Rule 1070]

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-71-25-0

EXPIRATION DATE: 08/31/2016

SECTION: SW35 **TOWNSHIP:** 28S **RANGE:** 25E

EQUIPMENT DESCRIPTION:

98,913 GALLON HORIZONTAL CYLINDRICAL NATURAL GASOLINE/LPG STORAGE TANK #65

PERMIT UNIT REQUIREMENTS

1. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
2. The permittee shall not emit more than one half of the major source threshold based on a rolling 12-month summary of actual emissions. [District Rule 2530, 6.1]
3. The permittee shall maintain a record of the rolling 12-month summary of actual emissions from permitted operations. This record shall be kept on site and made available to the District upon request. [District Rule 2530, 6.1]
4. Tank shall be maintained under working pressure sufficient at all times to prevent organic liquid loss or VOC loss to the atmosphere. [District Rule 4623]
5. Equipment shall be maintained gas tight and liquid leak free as defined in Rule 4451. [District Rule 4451]
6. Fugitive emission components shall be monitored and maintained pursuant to Rule 4451. [District Rule 4451]
7. All records shall be retained for a period of at least 5 years and shall be made available for District inspection upon request. [District Rule 1070]

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-71-26-0

EXPIRATION DATE: 08/31/2016

SECTION: SW35 **TOWNSHIP:** 28S **RANGE:** 25E

EQUIPMENT DESCRIPTION:

98,913 GALLON HORIZONTAL CYLINDRICAL NATURAL GASOLINE/LPG STORAGE TANK #66

PERMIT UNIT REQUIREMENTS

1. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
2. The permittee shall not emit more than one half of the major source threshold based on a rolling 12-month summary of actual emissions. [District Rule 2530, 6.1]
3. The permittee shall maintain a record of the rolling 12-month summary of actual emissions from permitted operations. This record shall be kept on site and made available to the District upon request. [District Rule 2530, 6.1]
4. Tank shall be maintained under working pressure sufficient at all times to prevent organic liquid loss or VOC loss to the atmosphere. [District Rule 4623]
5. Equipment shall be maintained gas tight and liquid leak free as defined in Rule 4451. [District Rule 4451]
6. Fugitive emission components shall be monitored and maintained pursuant to Rule 4451. [District Rule 4451]
7. All records shall be retained for a period of at least 5 years and shall be made available for District inspection upon request. [District Rule 1070]

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-71-27-0

EXPIRATION DATE: 08/31/2016

EQUIPMENT DESCRIPTION:

108,047 GALLON NATURAL GASOLINE/LPG STORAGE TANK

PERMIT UNIT REQUIREMENTS

1. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
2. The permittee shall not emit more than one half of the major source threshold based on a rolling 12-month summary of actual emissions. [District Rule 2530, 6.1]
3. The permittee shall maintain a record of the rolling 12-month summary of actual emissions from permitted operations. This record shall be kept on site and made available to the District upon request. [District Rule 2530, 6.1]
4. Tank shall be maintained under working pressure sufficient at all times to prevent organic liquid loss or VOC loss to the atmosphere (required to be considered exempt from Rule 4623). [District Rule 4623]
5. Equipment shall be maintained gas tight and liquid leak free as defined in Rule 4451. [District Rule 4451]
6. Fugitive emission components shall be monitored and maintained pursuant to Rule 4451. [District Rule 4451]
7. Volatile organic compound (VOC) emission rate shall not exceed 0.07 lbs/day. [District Rule 2201]
8. Permittee shall maintain permit accurate fugitive component counts and resulting emissions calculated using CAPCOA's "California Implementation Guidelines for Estimating Mass Emissions of Fugitive Hydrocarbon Leaks at Petroleum Facilities," Table IV-2c (Feb 1999), Screening Value Range emission factors. [District Rule 2201]
9. Gas compressor seals and pump seals shall have no vapor leaks in excess of 10,000 ppmv above background when measured with a portable hydrocarbon detection instrument calibrated with methane in accordance with EPA Method 21. Gas compressor seals and pump seals shall have no leak of VOC in excess of 3 drops per minute. [District Rules 2201 and 4452]
10. Fugitive piping components shall have no vapor leaks in excess of 10,000 ppmv above background when measured with a portable hydrocarbon detection instrument calibrated with methane in accordance with EPA Method 21. Fugitive components shall have no leak of VOC in excess of 3 drops per minute. [District Rules 2201 and 4451]

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-71-28-0

EXPIRATION DATE: 08/31/2016

EQUIPMENT DESCRIPTION:

108,047 GALLON NATURAL GASOLINE/LPG STORAGE TANK

PERMIT UNIT REQUIREMENTS

1. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
2. The permittee shall not emit more than one half of the major source threshold based on a rolling 12-month summary of actual emissions. [District Rule 2530, 6.1]
3. The permittee shall maintain a record of the rolling 12-month summary of actual emissions from permitted operations. This record shall be kept on site and made available to the District upon request. [District Rule 2530, 6.1]
4. Tank shall be maintained under working pressure sufficient at all times to prevent organic liquid loss or VOC loss to the atmosphere (required to be considered exempt from Rule 4623). [District Rule 4623]
5. Equipment shall be maintained gas tight and liquid leak free as defined in Rule 4451. [District Rule 4451]
6. Fugitive emission components shall be monitored and maintained pursuant to Rule 4451. [District Rule 4451]
7. Volatile organic compound (VOC) emission rate shall not exceed 0.07 lbs/day. [District Rule 2201]
8. Permittee shall maintain permit accurate fugitive component counts and resulting emissions calculated using CAPCOA's "California Implementation Guidelines for Estimating Mass Emissions of Fugitive Hydrocarbon Leaks at Petroleum Facilities," Table IV-2c (Feb 1999), Screening Value Range emission factors. [District Rule 2201]
9. Gas compressor seals and pump seals shall have no vapor leaks in excess of 10,000 ppmv above background when measured with a portable hydrocarbon detection instrument calibrated with methane in accordance with EPA Method 21. Gas compressor seals and pump seals shall have no leak of VOC in excess of 3 drops per minute. [District Rules 2201 and 4452]
10. Fugitive piping components shall have no vapor leaks in excess of 10,000 ppmv above background when measured with a portable hydrocarbon detection instrument calibrated with methane in accordance with EPA Method 21. Fugitive components shall have no leak of VOC in excess of 3 drops per minute. [District Rules 2201 and 4451]

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-71-29-0

EXPIRATION DATE: 08/31/2016

EQUIPMENT DESCRIPTION:

DISTILLATION OPERATION INCLUDING MIXED USE DEISOBUTANIZER/DEBUTANIZER COLUMN, UNFIRED REBOILER, AND VARIOUS EXCHANGERS, PUMPS, AND APPURTENANCES

PERMIT UNIT REQUIREMENTS

1. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
2. The permittee shall not emit more than one half of the major source threshold based on a rolling 12-month summary of actual emissions. [District Rule 2530, 6.1]
3. The permittee shall maintain a record of the rolling 12-month summary of actual emissions from permitted operations. This record shall be kept on site and made available to the District upon request. [District Rule 2530, 6.1]
4. All VOC sampling connections, open-ended valves, and lines shall be equipped with two closed valves or be sealed with blind flanges, caps, or threaded plugs except during actual use. [District Rule 2201]
5. Process heat shall only be supplied by hot oil heating systems listed on S-71-4, '5 or '14. [District Rule 2201]
6. Only heat transfer fluid manufactured and marketed for such use shall be used in a closed loop as heat transfer medium. [District Rule 2201]
7. Fugitive VOC emission rate shall not exceed 9.4 pounds per day. [District Rule 2201]
8. Permittee shall maintain permit accurate fugitive component counts and resulting emissions calculated using CAPCOA's "California Implementation Guidelines for Estimating Mass Emissions of Fugitive Hydrocarbon Leaks at Petroleum Facilities," February 1999, Table IV-2c: CAPCOA Oil and Gas Production Screening Value Range Emission Factors. [District Rule 2201]
9. The operator shall keep a copy of the APCO-approved Operator Management Plan (OMP) at the facility and make it available to the APCO, ARB and US EPA upon request. By January 30 of each year, the operator shall submit to the APCO for approval, in writing, an annual report indicating any changes to the existing, approved OMP. [District Rule 4455]
10. In accordance with the approved OMP, the operator shall meet all applicable operating, inspection and re-inspection, maintenance, process pressure relief device (PRD), component identification, recordkeeping and notification requirements of Rule 4455 for all components containing or contacting VOC at the this gas liquids processing facility, except for those components specifically exempted in Sections 4.1 and 4.2. [District Rule 4455]
11. Except for those components specified in the below condition, a component shall be considered leaking if one of more of the conditions specified in Sections 5.1.4.1 through 5.1.4.4 of the rule exist at the facility . [District Rule 4455, 5.1.4]
12. For valves and connectors, a leak shall be defined as a reading of methane in excess of 100 ppmv above background when measured per EPA Method 21 and Maintenance Program pursuant to District Rule 4455. For pump and compressor seals, a leak shall be defined as a reading of methane in excess of 500 ppmv above background when measure per EPA Method 21 and an Inspection and Maintenance Program pursuant to District Rule 4455. [District Rule 2201]

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

13. All records required by this permit shall be retained for a period of at least 5 years and shall be made available to the District, ARB, and USEPA upon request. [District Rules 1070, 2201 and 4455]

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-71-30-0

EXPIRATION DATE: 08/31/2016

EQUIPMENT DESCRIPTION:

21,000 GPM MECHANICAL DRAFT COOLING TOWER WITH HIGH EFFICIENCY CELLULAR TYPE DRIFT ELIMINATOR, FOUR 450 BHP CIRCULATION PUMPS, AND TDS CONTROL SYSTEM

PERMIT UNIT REQUIREMENTS

1. The permittee shall not emit more than one half of the major source threshold based on a rolling 12-month summary of actual emissions. [District Rule 2530, 6.1]
2. The permittee shall maintain a record of the rolling 12-month summary of actual emissions from permitted operations. This record shall be kept on site and made available to the District upon request. [District Rule 2530, 6.1]
3. No hexavalent chromium containing compounds shall be added to cooling tower circulating water. [District Rule 4102]
4. Cooling tower drift shall not exceed 0.001%. [District Rule 2201]
5. Control system shall maintain total dissolved solids (TDS) in cooling tower water less than 5.0 g/l. [District Rule 2201]
6. Recirculating water flow rate shall not exceed 21,000 gallons per minute. [District Rule 2201]
7. Compliance with recirculating water rate limit shall be demonstrated by engineering calculations using manufacturer's pump data, cooling water system pressure, and pump discharge pressure as applicable. [District Rule 2201]
8. Compliance with the TDS limit will be demonstrated by cooling water sample analysis by independent laboratory within 60 days of initial operation, and by monthly analysis by cooling tower chemical vendor or internal laboratory. [District Rule 1081]
9. Records of cooling tower water TDS and manufacturer's pump data, cooling water system pressure, pump discharge pressure, etc. and resulting engineering calculations of cooling tower water flow rate shall be kept at the facility and made readily available for District inspection upon request for 5 years. [District Rule 2201]

These terms and conditions are part of the Facility-wide Permit to Operate.

Attachment C

Comments Received

The District received a comment from EPA on the proposed initial Title V permits. A summary of the comment and the District response is below.

Comment: The application review states NSPS subpart KKK does not apply but there are subpart KKK in the rule references of some of the permits.

Response: The applicability of NSPS subpart KKK is explained in the engineering evaluation. The subpart is not applicable as the facility is not a natural gas processing plant as defined in 60.631. Subpart KKK was incorrectly placed as a rule reference on the conditions on permits S-71-18 thru '-28. Also, the incorrect District rule was placed as a rule reference on the same permits. District rule 4409 was placed on the permit however, District rule 4455 is the correct rule that applies to the permits. The permits have been corrected to reference the correct rules.